#### **APPENDIX A**

PROFESSIONAL QUALIFICATIONS

OF

PAULINE M. AHERN, CRRA VICE PRESIDENT

AUS CONSULTANTS – UTILITY SERVICES

#### PROFESSIONAL QUALIFICATIONS

#### OF

#### PAULINE M. AHERN, CRRA VICE PRESIDENT AUS CONSULTANTS – UTILITY SERVICES

#### PROFESSIONAL EXPERIENCE

#### 1996-Present

As a Vice President, I offer testimony as an expert witness on the subjects of fair rate of return and cost of capital before state public utility commissions. I provide assistance and support to clients throughout the entire ratemaking litigation process.

#### 1994-1996

As an Assistant Vice President, I prepared fair rate of return and cost of capital exhibits which are filed along with expert testimony before various state and federal public utility regulatory bodies. These supporting exhibits include the determination of an appropriate ratemaking capital structure and the development of embedded cost rates of senior capital. The exhibits also support the determination of a recommended return on common equity through the use of various market models, such as, but not limited to, Discounted Cash Flow analysis, Capital Asset Pricing Model and Risk Premium Methodology, as well as an assessment of the risk characteristics of the client utility. I also assisted in the preparation of responses to any interrogatories received regarding such testimonies filed on behalf of client utilities. Following the filing of fair rate of return testimonies, I assisted in the evaluation of opposition testimony in order to prepare interrogatory questions, areas of cross-examination, and rebuttal testimony. I also evaluated and assisted in the preparation of briefs and exceptions following the hearing process. I have submitted testimony before state public utility commissions regarding appropriate capital structure ratios and fixed capital cost rates.

#### 1990-1994

As a Senior Financial Analyst, I supervised two analysts in the preparation of fair rate of return and cost of capital exhibits which are filed along with expert testimony before various state and federal public utility regulatory bodies. The team also assisted in the preparation of interrogatory responses.

I evaluated the final orders and decisions of various commissions to determine whether further actions are warranted and to gain insight which may assist in the preparation of future rate of return studies.

I assisted in the preparation of an article authored by Frank J. Hanley and A. Gerald Harris entitled "Does Diversification Increase the Cost of Equity Capital?" published in the July 15, 1991 issue of <a href="Public Utilities Fortnightly">Public Utilities Fortnightly</a>.

I co-authored an article with Frank J. Hanley entitled "Comparable Earnings: New Life for an Old Precept" which was published in the American Gas Association's <u>Financial Quarterly Review</u>, Summer 1994.

I was awarded the professional designation "Certified Rate of Return Analyst" (CRRA) by the National Society of Rate of Return Analysts (now the Society of Utility and Regulatory Financial Analysts (SURFA)). This designation is based upon education, experience and the successful completion of a comprehensive examination.

As Administrator of Financial Analysis for AUS Utility Reports, which reports financial data for over 200 utility companies and has approximately 1,000 subscribers, I oversee the preparation of this monthly publication, as well as the annual publication, <u>Financial Statistics - Public Utilities</u>.

#### 1988-1990

As a Financial Analyst, I assisted in the preparation of fair rate of return studies including capital structure determination, development of senior capital cost rates, as well as the determination of an appropriate rate of return on equity. I also assisted in the preparation of interrogatory responses, interrogatory questions of the opposition, areas of cross-examination and rebuttal testimony. I also assisted in the preparation of the annual publication <u>C. A. Turner Utility Reports - Financial Statistics - Public Utilities</u>.

#### 1973-1975

As a research assistant in the Research Department of the Regional Economics Division of the Federal Reserve Bank of Boston, I was involved in the development and maintenance of econometric models to simulate regional economic conditions in New England in order to study the effects of, among other things, the energy crisis of the early 1970's and property tax revaluations on the economy of New England. I was also involved in the statistical analysis and preparation of articles for the New England Economic Review. Also, I acted as assistant editor for New England Business Indicators.

#### 1972

As a research assistant in the Office of the Assistant Secretary for International Affairs, U.S. Treasury Department, Washington, D.C., I developed and maintained econometric models which simulated the economy of the United States in order to study the results of various alternate foreign trade policies so that national trade policy could be formulated and recommended.

I am also a member of the Society of Utility and Regulatory Financial Analysts (formerly the National Society of Rate of Return Analysts).

#### Clients Served

I have offered expert testimony before the following commissions:

Arkansas California Delaware Florida Hawaii Idaho Illinois Indiana

Kentucky Maine

Maryland

Michigan Missouri Nevada New Jersey New York North Carolina

Ohio Pennsylvania South Carolina

Virginia Washington

I have sponsored testimony on the rate of return and capital structure effects of merger and acquisition issues for:

California-American Water Company

New Jersey-American Water Company

#### I have sponsored testimony on fair rate of return and related issues for:

Aqua Illinois, Inc. Aqua New Jersey, Inc. Aqua Virginia, Inc.

Audubon Water Company Carolina Pines Utilities, Inc. Carolina Water Service, Inc.

Consumers Illinois Water Company Consumers Maine Water Company Consumers New Jersey Water Company

City of DuBois, Pennsylvania Elizabethtown Water Company **Emporium Water Company** GTE Hawaiian Telephone Inc. Greenridge Utilities, Inc.

Borough of Hanover, Pennsylvania

Long Neck Water Company Middlesex Water Company

Missouri-American Water Company

Mt. Holly Water Company Nero Utility Services, Inc.

New Jersey-American Water Company

Ohio-American Water Company

Penn Estates

Pinelands Waste Water Company

Pittsburgh Thermal Spring Creek Utilities, Inc. Sussex Shores Water Company Tega Cay Water Service, Inc.

**Thames Water Americas** Tidewater Utilities, Inc. Transylvania Utilities, Inc. Twin Lakes Utilities, Inc.

**United Utility Companies** United Water Arkansas, Inc. United Water Delaware, Inc.

United Water Idaho, Inc.

United Water Indiana, Inc. United Water New Rochelle, Inc. United Water New York, Inc. United Water Pennsylvania, Inc.

United Water Virginia, Inc.

United Water West Lafayette, Inc.

Utilities, Inc. of Florida

Utilities Services of South Carolina

Valley Energy, Inc.

Water Service Corp. of Kentucky Wellsboro Electric Company

Western Utilities, Inc.

I have sponsored testimony on capital structure and senior capital cost rates for the following clients:

Alpena Power Company Arkansas-Western Gas Company Associated Natural Gas Company

PG Energy Inc. United Water Delaware, Inc. Washington Natural Gas Company

I have assisted in the preparation of rate of return studies on behalf of the following clients:

Algonquin Gas Transmission Company Arkansas-Louisiana Gas Company Arkansas Western Gas Company

Artesian Water Company Associated Natural Gas Company Atlantic City Electric Company Bridgeport-Hydraulic Company Cambridge Electric Light Company Carolina Power & Light Company Citizens Gas and Coke Utility

City of Vernon, CA Columbia Gas/Gulf Transmission Cos. Commonwealth Electric Company Commonwealth Telephone Company Conestoga Telephone & Telegraph Co. Connecticut Natural Gas Corporation Consolidated Gas Transmission Company

Consumers Power Company

CWS Systems, Inc.

Delmarva Power & Light Company East Honolulu Community Services, Inc.

Equitable Gas Company

Equitrans, Inc.

Florida Power & Light Company Gary Hobart Water Company

Gasco, Inc.

GTE Arkansas, Inc. GTE California, Inc. GTE Florida, Inc.

GTE Hawaiian Telephone

GTE North, Inc. GTE Northwest, Inc. GTE Southwest, Inc.

Great Lakes Gas Transmission L.P.

Hawaiian Electric Company Hawaiian Electric Light Company

IES Utilities Inc.

Illinois Power Company Interstate Power Company

Iowa Electric Light and Power Company

Iowa Southern Utilities Company

Kentucky-West Virginia Gas Company

Lockhart Power Company Middlesex Water Company

Milwaukee Metropolitan Sewer District

Mountaineer Gas Company

#### Rate of Return Study Clients, Continued

National Fuel Gas Distribution Corp. National Fuel Gas Supply Corp. Newco Waste Systems of NJ. Inc. New Jersey Natural Gas Company New Jersey-American Water Company New York-American Water Company North Carolina Natural Gas Corp. Northumbrian Water Company Ohio-American Water Company Oklahoma Natural Gas Company Orange and Rockland Utilities Paiute Pipeline Company PECO Energy Company Penn-York Energy Corporation Pennsylvania-American Water Co. PG Energy Inc. Philadelphia Electric Company South Carolina Pipeline Company Southwest Gas Corporation Stamford Water Company

Tesoro Alaska Petroleum Company United Telephone of New Jersey United Utility Companies United Water Arkansas, Inc. United Water Delaware, Inc. United Water Idaho, Inc. United Water Indiana, Inc. United Water New Jersey, Inc. United Water New York, Inc. United Water Pennsylvania, Inc. United Water Virginia, Inc. United Water West Lafayette, Inc. Vista-United Telecommunications Corp. Washington Natural Gas Company Washington Water Power Corporation Waste Management of New Jersey -Transfer Station A Wellsboro Electric Company Western Reserve Telephone Company Western Utilities, Inc.

#### **EDUCATION**:

1973 – Clark University – B.A. – Honors in Economics 1991 – Rutgers University – M.B.A. – High Honors

#### **PROFESSIONAL AFFILIATIONS:**

American Finance Association
Society of Utility and Regulatory Financial Analysts
President – 2006-2008
Secretary/Treasurer – 2004-2006
Energy Association of Pennsylvania
National Association of Water Companies – Member of the Finance Committee

| United Utility Companies, | Inc. |
|---------------------------|------|
| Docket No.                |      |

# PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

**EXHIBIT** 

TO ACCOMPANY THE

PREPARED DIRECT TESTIMONY

OF

PAULINE M. AHERN, CRRA VICE PRESIDENT AUS CONSULTANTS – UTILITY SERVICES

ON BEHALF OF UNITED UTILITY COMPANIES, INC.

CONCERNING
FAIR RATE OF RETURN

**JULY 2006** 

# United Utility Companies, Inc. Table of Contents to the Financial Supporting Exhibits of Pauline M. Ahem

|   | Schedule No.  |
|---|---------------|
| Summary of Cost of Capital and Fair Rate of Return  | PMA-1         |
| Standard & Poor's Public Utility Rating Methodology Profile and Revised Public Utility Financial Benchmarks | PMA-2         |
| Financial Profile of the Proxy Group of Seven AUS Utility Reports Water Companies                           | PMA-3         |
| Financial Profile of the Proxy Group of Four Value Line Water Companies                                     | PMA-4         |
| Inadequacy of DCF Return Related to Book Value  | PMA-5         |
| Indicated Common Equity Cost Rate Using the Discounted Cash Flow Model                                      | PMA-6         |
| Derivation of Dividend Yield for Use in the Discounted Cash Flow Model                                      | PMA-7         |
| Current Institutional Holdings  | PMA-8         |
| Historical and Projected Growth for Use in the<br>Discounted Cash Flow Model                                | <b>PM</b> A-9 |
| Indicated Common Equity Cost Rate Using the Risk Premium Model  | PMA-10        |
| Indicated Common Equity Cost Rate Using the<br>Capital Asset Pricing Model                                  | PMA-11        |
| Indicated Common Equity Cost Rate Using Comparable Earnings Analysis  | PMA-12        |

# United Utility Companies, Inc. Summary of Cost of Capital and Fair Rate of Return Based on the Actual Consolidated Capital Structure of Utilities, Inc. at September 30, 2005

| Type of Capital        | Ratios (1)        | Cost Rate           | Weighted (                     | Cost Rate      |
|------------------------|-------------------|---------------------|--------------------------------|----------------|
| Total Debt             | 59.10 %           | 6.42% (1)           | 3.79%                          | 3.79%          |
| Common Equity<br>Total | 40.90<br>100.00 % | 11.60% - 12.15% (2) | <u>4.74%</u><br><u>8.53%</u> - | 4.97%<br>8.76% |

- (1) From Exhibit B, Page 5 of the Application of United Utility Companies, Inc. for adjustment of rates and charges for the provision of water and sewer service and modification of rate schedules.
- (2) Based upon informed judgment from the entire study, the principal results of which are summarized on page 2 of this Schedule.

#### United Utility Companies, Inc. Brief Summary of Common Equity Cost Rate

| No. | Principal Methods   | Proxy Group of Six AUS<br>Utility Reports Water<br>Companies | Proxy Group of Four<br>Value Line (Standard<br>Edition) Water<br>Companies |
|-----|---|--|--|
| 1.  | Discounted Cash Flow Model (DCF) (1)  | 9.9 %  | 10.2 %   |
| 2.  | Risk Premium Model (RPM) (2)  | 11.2   | 11.3   |
| 3.  | Capital Asset Pricing Model (CAPM) (3)  | 10.7   | 10.9   |
| 4.  | Comparable Earnings Model (CEM) (4)   | 13.9   | 14.1   |
| 5.  | Indicated Range of Common Equity<br>Cost Rate before Adjustment for<br>Business Risk                | 10.95 %  | 11.50 %  |
| 6.  | Business Risk Adjustment (5)  | 0.45   | 0.45   |
| 7.  | Indicated Range of Common Equity<br>Cost Rate after Adjustment for<br>Business Risk                 | 11.40 %  | 11.95 %  |
| 8.  | Financial Risk Adjustment (6)   | 0.20   | 0.20   |
| 9.  | Recommended Range of Common<br>Equity Cost Rate after Adjustment for<br>Business and Financial Risk | <u>11.60</u> %   | . <u>12.15</u> %   |

Notes: (1) From Schedule 6 of this Exhibit.

- (2) From page 1 of Schedule 10 of this Exhibit.
- (3) From page 1 Schedule 11 of this Exhibit.
- (4) From page 2 and 4 of Schedule 12. of this Exhibit.
- (5) Business risk adjustment to reflect United Utility Companies, Inc.'s greater business risk due to its small size vis-à-vis each proxy group as detailed in Ms. Ahern's accompanying direct testimony.
- (6) Financial risk adjustment to reflect United Utility Companies, Inc.'s greater fiancial risk vis-avis each proxy group as detailed in Ms. Ahern's accompanying direct testimony.

United Utility Companies, Inc.
Derivation of Investment Risk Adjustment Based upon Ibbotson Associates' Size Premia for the Decile Portfolios of the NYSE/AMEXINASDAQ

| ЮI         | Spread from<br>Applicable Size<br>Premium (2)  |  |   | 4.03%  | 4.69%  |           |   |                 |                                |             |             |             |             |             | Sc<br>Pa                   |
|------------|--|--|---|--|--|-----------|---|-----------------|--------------------------------|-------------|-------------|-------------|-------------|-------------|----------------------------|
|            | <b>o</b> 1   | <u>(9</u>  | <u>@</u>  | <u>@</u>   | (11)   |           |   |                 |                                |             |             |             |             |             |                            |
| 41         | Applicable Size<br>Premium   | 6.36%  | 6.36%   | 2.33%  | 1.67%  | e         | Recent Average Market Capitalization (millions) | \$52,484.030    | 11,128.152<br>5 509 994        | 3,185.908   | 2,185.165   | 1,636.956   | 1,069.037   | 817.567     | 387.790<br>123.903         |
| ကျ         | Applicable Decile of the NYSE/AMEX/  | 10 (4)   | 10 (4)  | 8 (7)  | 7 (10)   | Good Tabo | Market Capitalization (millions)                | \$8,869,801.117 | 2,025,323,685<br>1,074,448,763 | 656,297.080 | 452,329.097 | 389,595,517 | 319,642.175 | 287,783.718 | 268,738.291<br>216,334.858 |
| <b>7</b> 1 | Market Capitalization on July 6, 2006 (1) (imes larger)  |  |   | 342.7 ×  | 518.9  |           | Number of<br>Companies                          | 169             | 195<br>195                     | 206         | 207         | 238         | 299         | 352         | 693<br>1746                |
|            | Market Capital<br>200<br>( millions )  | \$ 2.214   | \$ 2.089  | \$ 758.631   | \$ 1,083.916   |           | Decile  | 1 - Largest     | 4 M                            | 4 (         | ю (         | ωı          | <b>~</b> °  | 0 0         | g<br>10 - Smallest         |
|            | cl. Short-Term<br>ar 2005<br>(times larger)  |  |   | (2,033.1) ×  | (2,849.9)  |           |   |                 |                                |             |             |             |             |             |                            |
| <b>~</b> I | Total Capitalization (incl. Short-Term<br>Debly for the Year 2005<br>(millions) (times larger) | (0.286) (3)  |   | 581.470 (6)  | 815.059 (9)  |           |   |                 |                                |             |             |             |             |             |                            |
|            | ř  | ₩  |   | €  | 49   |           |   |                 |                                |             |             |             |             |             |                            |
|            | إن   | United Utility Companies, Inc. Based upon the Proxy Group of Six AUS Utility Reports Water Companies | Based upon the Proxy Group of Four Value Line<br>(Standard Edition) Water Companies | Proxy Group of Six AUS Utility Reports Water Companies | Proxy Group of Four Value Line (Standard Edition) Water<br>Companies |           |   |                 |                                |             |             |             |             |             |                            |
|            | Line No.   | <del>-</del> ∢   | മ്  | 6  | ю  |           |   |                 |                                |             |             |             |             |             |                            |

See page 4 for notes.

Exhibit No. \_\_\_\_ Schedule PMA-1 Page 4 of 18

## <u>United Utility Companies, Inc.</u> Derivation of Investment Risk Adjustment Based upon Ibbotson Associates' Size Premia for the Decile Portfolios of the NYSE

#### Notes:

- (1) From page 5 of this Schedule.
- (2) Line No. 1 Line No. 2 and Line No. 1 Line No. 3 of Columns 3 and 4, respectively. For example, the 4.03% in Column 5, Line No. 2 is derived as follows 4.03% = 6.36% 2.33%.
- (3) Company-provided
- (4) With an estimated market capitalization of \$2.214 million (based upon the proxy group of six AUS Utility Reports water companies) and \$2.089 (based upon the proxy group of four Value Line (Standard Edition) water companies), United Utility Companies, Inc. falls in the 10<sup>th</sup> decile of the NYSE/AMEX/NASDAQ which has an average market capitalization of \$123.903 as shown in the table on the bottom half of page 3 of this Schedule.
- (5) Size premium applicable to the 10<sup>th</sup> decile of the NYSE/AMEX/NASDAQ as shown on page 15 of this Schedule.
- (6) From page 1 of Schedule PMA-3.
- (7) With an estimated market capitalization of \$758.631 million, the proxy group of six AUS Utility Reports water companies falls in the 8<sup>th</sup> decile of the NYSE/AMEX/NASDAQ which has an average market capitalization of \$6817.567 million as shown in the table on the bottom half of page 3 of this Schedule.
- (8) Size premium applicable to the 8<sup>th</sup> decile of the NYSE/AMEX/NASDAQ as shown on page 15 of this Schedule.
- (9) From page 1 of Schedule PMA-4.
- (10) With an estimated market capitalization of \$1,083.916 million, the proxy group of four Value Line (Standard Edition) water companies falls in the 7<sup>th</sup> decile of the NYSE/AMEX/NASDAQ which has an average market capitalization of \$1,069.037 million as shown in the table on the bottom half of page 3 of this Schedule.
- (11) Size premium applicable to the 7<sup>th</sup> decile of the NYSE/AMEX/NASDAQ as shown on page 15 of this Schedule.

# United Utility Companies, Inc. Market Capitalization of United Utility Companies, Inc. the Proxy Group of Six AUS Utility Reports Water Companies and the the Proxy Group of Four Value Line (Standard (Edition) Water Companies

|     | n on<br>1(3)   | 2.214 (6)  | 2.089 (8)   |  |                           | 581.338          | 849.132                  | 111                            | 200.268                 | 187.627            | 758.631    |  | 338                       | 132                | 111                           | 984                   | 916          |
|-----|--|--|---|--|---------------------------|------------------|--------------------------|--------------------------------|-------------------------|--------------------|------------|--|---------------------------|--------------------|-------------------------------|-----------------------|--------------|
| ØI  | Market Capitalization on July 6, 2006 (3) ( millions )         | \$ 2   | \$  |  |                           | 281              | 2,849.132                | 620 111                        | 200.                    | 187.               | \$ 758.    |  | \$ 581.338                | 2,849.132          | 620.111                       | 285.084               | \$ 1,083.916 |
| ıOl | Market to-Book<br>Ratio at July 6,<br>2006 (2)                 | 256.8 % (5)  | 242.3 % (7)   |  |                           | 21// %           | 345.7                    | 2140                           | 200.7                   | 367.8              | 256.8 %    |  | 217.7 %                   |                    | 214.0                         | 191.9                 | 242.3 %      |
| 41  | Closing Stock<br>Market Price on<br>July 6, 2006               | NA   |   |  | 4                         | 34.330           | 22.000                   | 33.720                         | 17.260                  | 27.020             | \$ 27.125  |  | \$ 34.550                 | 22.000             | 33.720                        | 12.630                | \$ 25.725    |
| രി  | Total Common<br>Equity at March<br>31, 2006<br>( millions )    | \$ 0.862 (4)   |   |  | . 450 500                 | 170,702          | 58.074                   | 289.749                        | 98.779                  | 51.011             | \$ 264.980 |  | \$ 267.071                | 824.194            | 289.749                       | 148.531               | \$ 382.386   |
| CH  | Book Value per<br>Share at March<br>31, 2006 (1)               | NA   |   |  | 45 070                    |                  | 5.354<br>14.453          | 15.756                         | 8.599                   | 7.346              | 11.399     |  | 15.873                    | 6.364              | 15.756                        | 6.580                 | S 11.143     |
| ₽-l | Common Stock Shares Outstanding at March 31, 2006 ( millions ) | NA (4)   |   |  | 90                        |                  | 4.018                    | 18.390                         | 11.603                  | 6.944              | 31.215     |  | 16.826 S                  | 129.506            | 18.390                        | 779.77                | 46.824       |
|     | Company  | United Utility Companies, Inc. Based upon the Proxy Group of Six AUS Utility Reports Water Companies | Based upon the Proxy Group of Four Value Line<br>(Standard Edition) Water Companies | Proxy Group of Six AUS Utility Reports Water Companies | American States Water Co. | Adua America Inc | Artesian Resources Corp. | California Water Service Group | Middlesex Water Company | fork water Company | Average    | Proxy Group of Four Value Line (Standard Edition) Water<br>Companies | American States Water Co. | Aqua America, Inc. | Southwest Water Service Group | Comment water Company |              |

# NA = Not Available

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- Column 4 / Column 2.
  Column 5 \* Column 3.
  Since United Utility Companies, Inc. has negative common equity, the total common equity is estimated based upon allocating United Utility
  Companies, Inc. is rate base at September 30, 2005 of \$2,108,488 by the Company's proposed common equity ratio of 40.9%. \$0.862 million ≈ \$2,106,488 \* 40.9%.
  The market-to-book ratio of United Utility Companies, Inc. at July 6, 2006 is assumed to be equal to the average market-to-book ratio at July 6, 2006

  - The market-to-book ratio of United Utility Companies, Inc. at July 6, 2006 is assumed to be equal to the average market-to-book ratio at July 6, 2006 of the proxy group of six AUS Utility Reports water companies.

    United Utility Companies, Inc.'s common stock, if traded, would trade at a market-to-book ratio equal to the average market-to-book ratio at July 6, 2006 of the proxy group of six AUS Utility Reports water companies, 256,8%, and United Utility Companies, Inc.'s market capitalization at July 6, 2006 would therefore have been \$2.214 million. (\$2.214 = \$0.862 \* 256,8%). 9 8
    - of the proxy group of four Value Line (Standard Edition) water companies.

      United Utility Companies, Inc.'s common stock, if traded, would trade at a market-to-book ratio equal to the average market-to-book ratio at July 6, 2006 of the proxy group of four Value Line (Standard Edition) water companies, 242.3%, and United Utility Companies, Inc.'s market capitalization at July 6, 2006 would therefore have been \$2,089 million. (\$2.089 = \$0.862 \* 242.3%).

Source of Information:

Standard & Poor's Compustat Services, Inc. Research Insight PCPIus Data Base Application of United Utility Companies, Inc. for adjustment of rates and charges and modifictions to certain terms and conditions for the provision of water and sewer service. finance, yahoo.com Stocks, Bonds, Bills, and Inflation

**Valuation Edition** 2006 Yearbook

ibbotson



#### Firm Size and Return

#### The Firm Size Phenomenon

One of the most remarkable discoveries of modern finance is that of a relationship between firm size and return. The relationship cuts across the entire size spectrum but is most evident among smaller companies, which have higher returns on average than larger ones. Many studies have looked at the effect of firm size on return. In this chapter, the returns across the entire range of firm size are examined.

#### Construction of the Decile Portfolios

The portfolios used in this chapter are those created by the Center for Research in Security Prices (CRSP) at the University of Chicago's Graduate School of Business. CRSP has refined the methodology of creating size-based portfolios and has applied this methodology to the entire universe of NYSE/AMEX/NASDAQ-listed securities going back to 1926.

The New York Stock Exchange universe excludes closed-end mutual funds, preferred stocks, real estate investment trusts, foreign stocks, American Depository Receipts, unit investment trusts, and Americus Trusts. All companies on the NYSE are ranked by the combined market capitalization of their eligible equity securities. The companies are then split into 10 equally populated groups, or deciles. Eligible companies traded on the American Stock Exchange (AMEX) and the Nasdaq National Market (NASDAQ) are then assigned to the appropriate deciles according to their capitalization in relation to the NYSE breakpoints. The portfolios are rebalanced, using closing prices for the last trading day of March, June, September, and December. Securities added during the quarter are assigned to the appropriate portfolio when two consecutive month-end prices are available. If the final NYSE price of a security that becomes delisted is a month-end price, then that month's return is included in the quarterly return of the security's portfolio. When a month-end NYSE price is missing, the month-end value of the security is derived from merger terms, quotations on regional exchanges, and other sources. If a month-end value still is not determined, the last available daily price is used.

Base security returns are monthly holding period returns. All distributions are added to the month-end prices, and appropriate price adjustments are made to account for stock splits and dividends. The return on a portfolio for one month is calculated as the weighted average of the returns for its individual stocks. Annual portfolio returns are calculated by compounding the monthly portfolio returns.

#### Size of the Deciles

Table 7-1 reveals that the top three deciles of the NYSE/AMEX/NASDAQ account for most of the total market value of its stocks. Nearly two-thirds of the market value is represented by the first decile, which currently consists of 169 stocks, while the smallest decile accounts for just over

<sup>1</sup> Rolf W. Banz was the first to document this phenomenon. See Banz, Rolf W. "The Relationship Between Returns and Market Value of Common Stocks," *Journal of Financial Economics*, Vol. 9, 1981, pp. 3-18.

one percent of the market value. The data in the second column of Table 7-1 are averages across all 80 years. Of course, the proportion of market value represented by the various deciles varies from year to year.

Columns three and four give recent figures on the number of companies and their market capitalization, presenting a snapshot of the structure of the deciles near the end of 2005.

Table 7-1
Size-Decile Portfolios of the NYSE/AMEX/NASDAQ Size and Composition 1926 through September 30, 2005

| Decile         | Historical Average<br>Percentage of<br>Total Capitalization | Recent<br>Number of<br>Companies | Recent<br>Decile Market<br>Capitalization<br>(in thousands) | Recent<br>Percentage of<br>Total Capitalization |
|----------------|---|----------------------------------|---|---|
| 1-largest      | 63.29%  | 169                              | \$8,869,801,117   | 60.92%  |
| 2              | 13.97%  | 182                              | 2,025,323,685   | 13.91%  |
| 3              | 7.57%   | 195                              | 1,074,448,763   | 7.38%   |
| 4              | 4.74%   | 206                              | 656,297,080   | 4.51%   |
| 5              | 3.24%   | 207                              | 452,329,097   | 3.11%   |
| 6              | 2.37%   | 238                              | 389,595,517   | 2.68%   |
| 7              | 1.73%   | 299                              | 319,642,175   | 2.20%   |
| 8              | 1.28%   | 352                              | 287,783,718   | 1.98%   |
| 9              | 0.99%   | 693                              | 268,738,291   | 1.85%   |
| 10-Smallest    | 0.81%   | 1,746                            | 216,334,858   | 1.49%   |
| Mid-Cap 3-5    | 15.55%  | 608                              | 2,183,074,940   | 14.99%  |
| Low-Cap 6-8    | 5.39%   | 889                              | 997,021,410   | 6.85%   |
| Micro-Cap 9-10 | 1.80%   | 2,439                            | 485,073,149   | 3.33%   |

Source: © 200603 CRSP® Center for Research in Security Prices. Graduate School of Business, The University of Chicago. Used with permission. All rights reserved, www.crsp.uchicago.edu.

Historical average percentage of total capitalization shows the average, over the last 80 years, of the decile market values as a percentage of the total NYSE/AMEX/NASDAQ calculated each month. Number of companies in deciles, recent market capitalization of deciles, and recent percentage of total capitalization are as of September 30, 2005.

Table 7-2 gives the current breakpoints that define the composition of the NYSE/AMEX/NASDAQ size deciles. The largest company and its market capitalization are presented for each decile. Table 7-3 shows the historical breakpoints for each of the three size groupings presented throughout this chapter. Mid-cap stocks are defined here as the aggregate of deciles 3-5. Based on the most recent data (Table 7-2), companies within this mid-cap range have market capitalizations at or below \$7,187,244,000 but greater than \$1,728,888,000. Low-cap stocks include deciles 6-8 and currently include all companies in the NYSE/AMEX/NASDAQ with market capitalizations at or below \$1,728,888,000 but greater than \$586,393,000. Micro-cap stocks include deciles 9-10 and include companies with market capitalizations at or below \$586,393,000. The market capitalization of the smallest company included in the micro-capitalization group is currently \$1,079,000.

Table 7-2
Size-Decile Portfolios of the NYSE/AMEX/NASDAQ, Largest Company and Its Market Capitalization by Decile
September 30, 2005

| Decile      | Market Capitalization of Largest Company (in thousands) | Company Name                      |
|-------------|---|-----------------------------------|
| 1-Largest   | \$367,495,144   | General Electric Co.              |
| 2           | 16,016,450  | Entergy Corp.                     |
| 3           | 7,187,244   | Chesapeake Energy Corp.           |
| 4           | 3,961,425   | Ball Corp.                        |
| 5           | 2,519,280   | Celenese Corp.                    |
| 6           | 1,728,888   | AGCO Corp.                        |
| 7           | 1,280,966   | ESCO Technologies Inc.            |
| 8           | 872,103   | West Pharmaceutical Services Inc. |
| 9           | 586,393   | General Cable Corp.               |
| 10-Smallest | 264,981   | 4Kids Entertainment Inc.          |

Source: Center for Research in Security Prices, University of Chicago.

#### Presentation of the Decile Data

Summary statistics of annual returns of the 10 deciles over 1926–2005 are presented in Table 7-4. Note from this exhibit that both the average return and the total risk, or standard deviation of annual returns, tend to increase as one moves from the largest decile to the smallest. Furthermore, the serial correlations of returns are near zero for all but the smallest two deciles. Serial correlations and their significance will be discussed in detail later in this chapter.

Graph 7-1 depicts the growth of one dollar invested in each of three NYSE/AMEX/NASDAQ groups broken down into mid-cap, low-cap, and micro-cap stocks. The index value of the entire NYSE/AMEX/NASDAQ is also included. All returns presented are value-weighted based on the market capitalizations of the deciles contained in each subgroup. The sheer magnitude of the size effect in some years is noteworthy. While the largest stocks actually declined 9 percent in 1977, the smallest stocks rose more than 20 percent. A more extreme case occurred in the depression-recovery year of 1933, when the difference between the first and tenth decile returns was far more substantial, with the largest stocks rising 46 percent, and the smallest stocks rising 224 percent. This divergence in the performance of small and large company stocks is a common occurrence.

Table 7-3

#### Size-Decile Portfolios of the NYSE/AMEX/NASDAQ

Largest and Smallest Company by Size Group

from 1926 to 1965

|                   | Capitaliza     | ition of Large<br>(in thousand |                      | Capitalization of Smallest Com (in thousands) |                      |                   |
|-------------------|----------------|--------------------------------|----------------------|---|----------------------|-------------------|
| Date<br>(Sept 30) | Mid-Cap<br>3-5 | Low-Cap<br>6-8                 | Micro-Cap<br>9-10    | Mid-Cap<br>3-5                                | Low-Cap<br>6-8       | Micro-Cap<br>9-10 |
| 1926              | \$61,490       | \$14,040                       | \$4,305              | \$14,100                                      | \$4,325              | \$43              |
| 1927              | \$65,281       | \$14,746                       | \$4,450              | \$15,311                                      | \$4,496              | \$72              |
| 1928              | \$81,998       | \$18,975                       | \$5,074              | \$19,050                                      | \$5,119              | \$135             |
| 1929              | \$107,085      | \$24,328                       | \$5,875              | \$24,480                                      | \$5,915              | \$126             |
| 1930              | \$67,808       | \$13,050                       | \$3,219              | \$13,068                                      | \$3,264              | \$30              |
| 1931              | \$42,607       | \$8,142                        | \$1,905              | \$8,222                                       | \$1,927              | \$15              |
| 1932              | \$12,431       | \$2,170                        | \$473                | \$2,196                                       | \$477                | \$19              |
| 1933              | \$40,298       | \$7,210                        | \$1,830              | \$7,280                                       | \$1,875              | \$100             |
| 1934              | \$38,129       | \$6,669                        | \$1,669              | \$6,734                                       | \$1,673              | \$68              |
| 1935              | \$37,631       | \$6,519                        | \$1,350              | \$6,549                                       | \$1,383              | \$38              |
| 1936              | \$46,920       | \$11,505                       | \$2,660              | \$11,526                                      | \$2,668              | \$98              |
| 1937              | \$51,750       | \$13,601                       | \$3,500              | \$13,635                                      | \$3,539              | \$68              |
| 1938              | \$36,102       | \$8,325                        | \$2,125              | \$8,372                                       | \$2,145              | \$60              |
| 1939              | \$35,784       | \$7,367                        | \$1,697              | \$7,389                                       | \$1,800              | \$75              |
| 1940              | \$31,050       | \$7,990                        | \$1,861              | \$8,007                                       | \$1,872              | \$51              |
| 1941              | \$31,744       | \$8,316                        | \$2,086              | \$8,336                                       | \$2,087              | \$72              |
| 1942              | \$26,135       | \$6,870                        | \$1,779              | \$6,875                                       | \$1,788              | \$82              |
| 1943              | \$43,218       | \$11,475                       | \$3,847              | \$11,480                                      | \$3,903              | \$395             |
| 1944              | \$46,621       | \$13,066                       | \$4,800              | \$13,068                                      | \$4,812              | \$309             |
| 1945              | \$55,268       | \$17,325                       | \$6,413              | \$17,575                                      | \$6,428              | \$225             |
| 1946              | \$79,158       | \$24,192                       | \$10,013             | \$24,199                                      | \$10,051             | \$829             |
| 1947              | \$57,830       | \$17,735                       | \$6,373              | \$17,872                                      | \$6,380              | \$747             |
| 1948              | \$67,238       | \$19,575                       | \$7,313              | \$19,651                                      | \$7,329              | \$784             |
| 1949              | \$55,506       | \$14,549                       | \$5,037              | \$14,577                                      | \$5,108              | \$379             |
| 1950              | \$65,881       | \$18,675                       | \$6,176              | \$18,750                                      | \$6,201              | \$303             |
| 1951              | \$82,517       | \$22,750                       | \$7,567              |   |                      | -                 |
| 1952              | \$97,936       | \$25,452                       | \$8,428              | \$22,860                                      | \$7,598<br>\$8,480   | \$668             |
| 1953              | \$98,595       | \$25,432<br>\$25,374           | \$8,426<br>\$8,156   | \$25,532                                      | \$8,480              | \$480             |
| 1954              | \$125,834      | \$29,645                       | \$8,484              | \$25,395<br>\$29,707                          | \$8,168              | \$459             |
| 1955              | \$170,829      | \$41,445                       | \$12,353             | \$41,681                                      | \$8,488<br>\$12,366  | \$463<br>\$553    |
|                   |                |                                |                      |   |                      |                   |
| 1956              | \$183,434      | \$46,805                       | \$13,481             | \$46,886                                      | \$13,524             | \$1,122           |
| 1957              | \$192,861      | \$47,658<br>\$46,774           | \$13,844             | \$48,509                                      | \$13,848             | \$925             |
| 1958              | \$195,083      | \$46,774                       | \$13,789             | \$46,871                                      | \$13,816             | \$550             |
| 1959<br>1960      | \$253,644      | \$64,221<br>\$61.485           | \$19,500<br>\$19,344 | \$64,372<br>\$61,520                          | \$19,548<br>\$10,395 | \$1,804           |
|                   | \$246,202      | \$61,485                       | \$19,344             | \$61,529                                      | \$19,385             | \$B31             |
| 1961              | \$296,261      | \$79,058                       | \$23,562             | \$79,422                                      | \$23,613             | \$2,455           |
| 1962              | \$250,433      | \$58,866                       | \$18,952             | \$59,143                                      | \$18,968             | \$1,018           |
| 1963              | \$308,438      | \$71,846                       | \$23,819             | \$71,971                                      | \$23,822             | \$296             |
| 1964              | \$344,033      | \$79,343                       | \$25,594             | \$79,508                                      | \$25,595             | \$223             |
| 1965              | \$363,759      | \$84,479                       | \$28,365             | \$84,600                                      | \$28,375             | \$250             |

Source: Center for Research in Security Prices, University of Chicago.

Table 7-3 (continued)

#### Size-Decile Portfolios of the NYSE/AMEX/NASDAQ

Largest and Smallest Company by Size Group

from 1966 to 2005

|                   | Capitali       | zation of Large<br>(in thousand |                   | Capitalization of Smallest Com (in thousands) |                |                   |
|-------------------|----------------|---------------------------------|-------------------|---|----------------|-------------------|
| Date<br>(Sept 30) | Mid-Cap<br>3-5 | Low-Cap<br>6-8                  | Micro-Cap<br>9-10 | Mid-Cap<br>3-5                                | Low-Cap<br>6-8 | Micro-Cap<br>9-10 |
| 1966              | \$399,455      | \$99,578                        | \$34,884          | \$99,935                                      | \$34,966       | \$381             |
| 1967              | \$459,170      | \$117,985                       | \$42,267          | \$118,329                                     | \$42,313       | \$381             |
| 1968              | \$528,326      | \$149,261                       | \$60,351          | \$150,128                                     | \$60,397       | \$592             |
| 1969              | \$517,452      | \$144,770                       | \$54,273          | \$145,684                                     | \$54,280       | \$2,119           |
| 1970              | \$380,246      | \$94,025                        | \$29,910          | \$94,047                                      | \$29,916       | \$822             |
| 1971              | \$542,517      | \$145,340                       | \$45,571          | \$145,673                                     | \$45,589       | \$865             |
| 1972              | \$545,211      | \$139,647                       | \$46,728          | \$139,710                                     | \$46,757       | \$1,031           |
| 1973              | \$424,584      | \$94,809                        | \$29,601          | \$95,378                                      | \$29,606       | \$561             |
| 1974              | \$344,013      | \$75,272                        | \$22,475          | \$75,853                                      | \$22,481       | \$444             |
| 1975              | \$465,763      | \$96,954                        | \$28,140          | \$97,266                                      | \$28,144       | \$540             |
| 1976              | \$551,071      | \$116,184                       | \$31,987          | \$116,212                                     | \$32,002       | \$564             |
| 1977              | \$573,084      | \$135,804                       | \$39,192          | \$137,323                                     | \$39,254       | \$513             |
| 1978              | \$572,967      | \$159,778                       | \$46,621          | \$160,524                                     | \$46,629       | \$830             |
| 1979              | \$661,336      | \$174,480                       | \$49,088          | \$174,517                                     | \$49,172       | \$948             |
| 1980              | \$754,562      | \$194,012                       | \$48,671          | \$194,241                                     | \$48,953       | \$549             |
| 1981              | \$954,665      | \$259,028                       | \$71,276          | \$261,059                                     | \$71,289       | \$1,446           |
| 1982              | \$762,028      | \$205,590                       | \$54,675          | \$206,536                                     | \$54,883       | \$1,060           |
| 1983              | \$1,200,680    | \$352,698                       | \$103,443         | \$352,944                                     | \$103,530      | \$2,025           |
| 1984              | \$1,068,972    | \$314,650                       | \$90,419          | \$315,214                                     | \$90,659       | \$2,093           |
| 1985              | \$1,432,342    | \$367,413                       | \$93,810          | \$368,249                                     | \$94,000       | \$760             |
| 1986              | \$1,857,621    | \$444,827                       | \$109,956         | \$445,648                                     | \$109,975      | \$706             |
| 1987              | \$2,059,143    | \$467,430                       | \$112,035         | \$468,948                                     | \$112,125      | \$1,277           |
| 1988              | \$1,957,926    | \$420,257                       | \$94,268          | \$421,340                                     | \$94,302       | \$696             |
| 1989              | \$2,147,608    | \$480,975                       | \$100,285         | \$483,623                                     | \$100,384      | \$96              |
| 1990              | \$2,164,185    | \$472,003                       | \$93,627          | \$474,065                                     | \$93,750       | \$132             |
| 1991              | \$2,129,863    | \$457,958                       | \$87,586          | \$458,853                                     | \$87,733       | \$278             |
| 1992              | \$2,428,671    | \$500,346                       | \$103,352         | \$501,050                                     | \$103,500      | \$510             |
| 1993              | \$2,711,068    | \$608,520                       | \$137,945         | \$608,825                                     | \$137,987      | \$602             |
| 1994              | \$2,497,073    | \$601,552                       | \$149,435         | \$602,552                                     | \$149,532      | \$598             |
| 1995              | \$2,793,761    | \$653,178                       | \$158,011         | \$654,019                                     | \$158,063      | \$89              |
| 1996              | \$3,150,685    | \$763,377                       | \$195,188         | \$763,812                                     | \$195,326      | \$1,043           |
| 1997              | \$3,511,132    | \$818,299                       | \$230,472         | \$821,028                                     | \$230,554      | \$480             |
| 1998              | \$4,216,707    | \$934,264                       | \$253,329         | \$936,727                                     | \$253,336      | \$1,671           |
| 1999              | \$4,251,741    | \$875,309                       | \$218,336         | \$875,582                                     | \$218,368      | \$1,502           |
| 2000              | \$4,143,902    | \$840,000                       | \$192,598         | \$840,730                                     | \$192,721      | \$1,462           |
| 2001              | \$5,252,063    | \$1,114,792                     | \$269,275         | \$1,115,200                                   | \$270,391      | \$443             |
| 2002              | \$5,012,705    | \$1,143,845                     | \$314,042         | \$1,144,452                                   | \$314,174      | \$501             |
| 2003              | \$4,794,027    | \$1,166,799                     | \$330,608         | \$1,167,040                                   | \$330,797      | \$332             |
| 2004              | \$6,241,953    | \$1,607,854                     | \$505,437         | \$1,607,931                                   | \$506,410      | \$1,393           |
| 2005              | \$7,187,244    | \$1,728,888                     | \$586,393         | \$1,729,364                                   | \$587,243      | \$1,030           |

Source: Center for Research in Security Prices, University of Chicago.

Table 7-4
Size-Decile Portfolios of the NYSE/AMEX/NASDAQ, Summary Statistics of Annual Returns
1926–2005

| Decile                              | Geometric<br>Mean | Arithmetic<br>Mean | Standard<br>Deviation | Serial<br>Correlation |
|-------------------------------------|-------------------|--------------------|-----------------------|-----------------------|
| 1-Largest                           | 9.5               | 11.3               | 19.17                 | 0.09                  |
| 2                                   | 10.9              | 13.2               | 21.86                 | 0.03                  |
| 3                                   | 11.3              | 13.8               | 23.66                 | -0.02                 |
| 4                                   | 11.3              | 14.3               | 25.94                 | -0.02                 |
| 5                                   | 11.6              | 14.9               | 26.78                 | -0.02                 |
| 6                                   | 11.8              | 15.3               | 27.84                 | 0.04                  |
| 7                                   | 11.6              | 15.6               | 29.99                 | 0.01                  |
| 8                                   | 11.8              | 16.6               | 33.47                 | 0.04                  |
| 9                                   | 12.0              | 17.5               | 36.55                 | 0.05                  |
| 10-Smallest                         | 14.0              | 21.6               | 45.44                 | 0.15                  |
| Mid-Cap, 3-5                        | 11.4              | 14.2               | 24.74                 | -0.02                 |
| Low-Cap, 6-8                        | 11.7              | 15.7               | 29.52                 | 0.03                  |
| Micro-Cap, 9-10<br>NYSE/AMEX/NASDAQ | 12.7              | 18.8               | 39.16                 | 0.08                  |
| Total Value-Weighted Index          | 10.1              | 12.0               | 20.21                 | 0.03                  |

Source: Center for Research in Security Prices, University of Chicago.

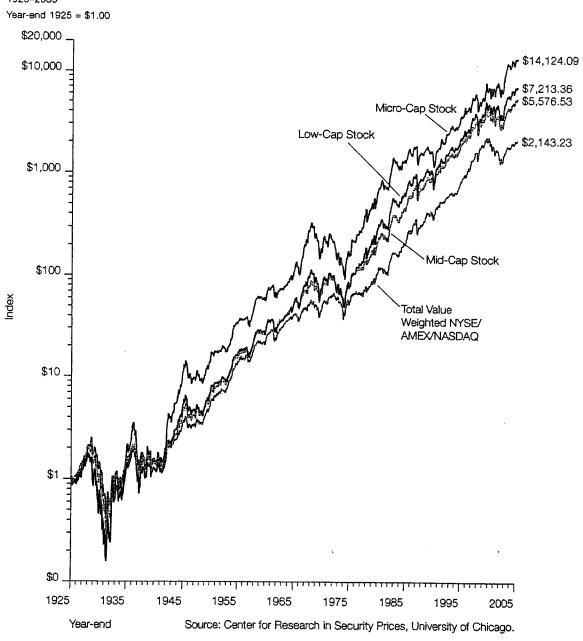
#### Aspects of the Firm Size Effect

The firm size phenomenon is remarkable in several ways. First, the greater risk of small stocks does not, in the context of the capital asset pricing model (CAPM), fully account for their higher returns over the long term. In the CAPM only systematic, or beta risk, is rewarded; small company stocks have had returns in excess of those implied by their betas.

Second, the calendar annual return differences between small and large companies are serially correlated. This suggests that past annual returns may be of some value in predicting future annual returns. Such serial correlation, or autocorrelation, is practically unknown in the market for large stocks and in most other equity markets but is evident in the size premia.

Third, the firm size effect is seasonal. For example, small company stocks outperformed large company stocks in the month of January in a large majority of the years. Such predictability is surprising and suspicious in light of modern capital market theory. These three aspects of the firm size effect—long-term returns in excess of systematic risk, serial correlation, and seasonality—will be analyzed thoroughly in the following sections.

Graph 7-1
Size-Decile Portfolios of the NYSE/AMEX/NASDAQ: Wealth Indices of Investments in Mid-, Low-, Micro- and Total Capitalization Stocks
1925–2005



#### Long-Term Returns in Excess of Systematic Risk

The capital asset pricing model (CAPM) does not fully account for the higher returns of small company stocks. Table 7-5 shows the returns in excess of systematic risk over the past 80 years for each decile of the NYSE/AMEX/NASDAQ. Recall that the CAPM is expressed as follows:

$$k_s = r_t + (\beta_s \times ERP)$$

Table 7-5 uses the CAPM to estimate the return in excess of the riskless rate and compares this estimate to historical performance. According to the CAPM, the expected return on a security should consist of the riskless rate plus an additional return to compensate for the systematic risk of the security. The return in excess of the riskless rate is estimated in the context of the CAPM by multiplying the equity risk premium by  $\beta$  (beta). The equity risk premium is the return that compensates investors for taking on risk equal to the risk of the market as a whole (systematic risk). Beta measures the extent to which a security or portfolio is exposed to systematic risk. The beta of each decile indicates the degree to which the decile's return moves with that of the overall market.

A beta greater than one indicates that the security or portfolio has greater systematic risk than the market; according to the CAPM equation, investors are compensated for taking on this additional risk. Yet, Table 7-5 illustrates that the smaller deciles have had returns that are not fully explained by their higher betas. This return in excess of that predicted by CAPM increases as one moves from the largest companies in decile 1 to the smallest in decile 10. The excess return is especially pronounced for micro-cap stocks (deciles 9-10). This size-related phenomenon has prompted a revision to the CAPM, which includes a size premium. Chapter 4 presents this modified CAPM theory and its application in more detail.

This phenomenon can also be viewed graphically, as depicted in the Graph 7-2. The security market line is based on the pure CAPM without adjustment for the size premium. Based on the risk (or beta) of a security, the expected return lies on the security market line. However, the actual historic returns for the smaller deciles of the NYSE/AMEX/NASDAQ lie above the line, indicating that these deciles have had returns in excess of that which is appropriate for their systematic risk.

3 Historical betas were calculated using a simple regression of the monthly portfolio (decile) total returns in excess of the 30-day U.S. Treasury bill total returns versus the S&P 500 total returns in excess of the 30-day U.S. Treasury bill,

January 1926-December 2005. See Chapter 6 for more detail on beta estimation.

<sup>2</sup> The equity risk premium is estimated by the 80-year arithmetic mean return on large company stocks, 12.30 percent, less the 80-year arithmetic mean income-return component of 20-year government bonds as the historical riskless rate, in this case 5.22 percent. (It is appropriate, however, to match the maturity, or duration, of the riskless asset with the investment horizon.) See Chapter 5 for more detail on equity risk premium estimation.

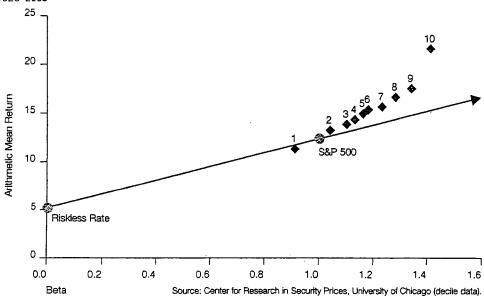
Table 7-5

Long-Term Returns in Excess of CAPM Estimation for Decile Portfolios of the NYSE/AMEX/NASDAQ
1926-2005

| Decile          | Beta* | Arithmetic<br>Mean<br>Return | Realized<br>Return in<br>Excess of<br>Riskless Rate** | Estimated<br>Return in<br>Excess of<br>Riskless Rate† | Size Premium<br>(Return in<br>Excess of<br>CAPM) |
|-----------------|-------|------------------------------|---|---|--|
| 1-Largest       | 0.91  | 11.29%                       | 6.07%   | 6.45%   | -0.37%   |
| 2               | 1.04  | 13.22%                       | 8.00%   | 7.33%   | 0.67%  |
| 3               | 1.10  | 13.84%                       | 8.62%   | 7.77%   | 0.85%  |
| 4               | 1.13  | 14.31%                       | 9.09%   | 7.98%   | 1.10%  |
| 5               | 1.16  | 14.91%                       | 9.69%   | 8.20%   | 1.49%  |
| 6               | 1.18  | 15.33%                       | 10.11%  | 8.38%   | 1.73%  |
| 7               | 1.23  | 15.62%                       | 10.40%  | 8.73%   | 1.67%  |
| 8               | 1.28  | 16.60%                       | 11.38%  | 9.05%   | 2.33%  |
| 9               | 1.34  | 17.48%                       | 12.26%  | 9.50%   | 2.76%  |
| 10-Smallest     | 1.41  | 21.59%                       | 16.37%  | 10.01%  | 6.36%  |
| Mid-Cap, 3-5    | 1.12  | 14.15%                       | 8.94%   | 7.91%   | 1.02%  |
| Low-Cap, 6-8    | 1.22  | 15.66%                       | 10.44%  | 8.63%   | 1.81%  |
| Micro-Cap, 9-10 | 1.36  | 18.77%                       | 13.55%  | 9.61%   | 3.95   |

<sup>\*</sup>Betas are estimated from monthly portfolio total returns in excess of the 30-day U.S. Treasury bill total return versus the S&P 500 total returns in excess of the 30-day U.S. Treasury bill, January 1926–December 2005.

Graph 7-2 Security Market Line versus Size-Decile Portfolios of the NYSE/AMEX/NASDAQ 1926–2005



<sup>\*\*</sup>Historical riskless rate is measured by the 80-year arithmetic mean income return component of 20-year government bonds (5.22 percent).

<sup>†</sup>Calculated in the context of the CAPM by multiplying the equity risk premium by beta. The equity risk premium is estimated by the arithmetic mean total return of the S&P 500 (12.30 percent) minus the arithmetic mean income return component of 20-year government bonds (5.22 percent) from 1926–2005.

#### Further Analysis of the 10th Decile

The size premia presented thus far do a great deal to explain the return due solely to size in publicly traded companies. However, by splitting the 10th decile into two size groupings we can get a closer look at the smallest companies. This magnification of the smallest companies will demonstrate whether the company size to size premia relationship continues to hold true.

As previously discussed, the method for determining the size groupings for size premia analysis was to take the stocks traded on the NYSE and break them up into 10 deciles, after which stocks traded on the AMEX and NASDAQ were allocated into the same size groupings. This same methodology was used to split the 10th decile into two parts: 10a and 10b, with 10b being the smaller of the two. This is equivalent to breaking the stocks down into 20 size groupings, with portfolios 19 and 20 representing 10a and 10b.

Table 7-7 shows that the pattern continues; as companies get smaller their size premium increases. There is a noticeable increase in size premium from 10a to 10b, which can also be demonstrated visually in Graph 7-3. This can be useful in valuing companies that are extremely small. Table 7-6 presents the size, composition, and breakpoints of deciles 10a and 10b. First, the recent number of companies and total decile market capitalization are presented. Then the largest company and its market capitalization are presented.

Breaking the smallest decile down lowers the significance of the results compared to results for the 10th decile taken as a whole, however. The same holds true for comparing the 10th decile with the Micro-Cap aggregation of the 9th and 10th deciles. The more stocks included in a sample the more significance can be placed on the results. While this is not as much of a factor with the recent years of data, these size premia are constructed with data back to 1926. By breaking the 10th decile down into smaller components we have cut the number of stocks included in each grouping. The change over time of the number of stocks included in the 10th decile for the NYSE/AMEX/NASDAQ is presented in Table 7-8. With fewer stocks included in the analysis early on, there is a strong possibility that just a few stocks can dominate the returns for those early years.

While the number of companies included in the 10th decile for the early years of our analysis is low, it is not too low to still draw meaningful results even when broken down into subdivisions 10a and 10b. All things considered, size premia developed for deciles 10a and 10b are significant and can be used in cost of capital analysis. These size premia should greatly enhance the development of cost of capital analysis for very small companies.

Table 7-6
Size-Decile Portfolios 10a and 10b of the NYSE/AMEX/NASDAQ,
Largest Company and Its Market Capitalization
September 30, 2005

| Decile | Recent Number of Companies | Recent Decile<br>Market Capitalization<br>(in thousands) | Market Capitalization<br>of Largest Company<br>(in thousands) | Company<br>Name       |
|--------|----------------------------|--|---|-----------------------|
| 10a    | 483                        | \$108,194,821  | \$264,981   | 4Kids Entertaint Inc. |
| 10b    | 1,279                      | \$102,157,012  | \$169,195   | Quaker Chemical Corp. |

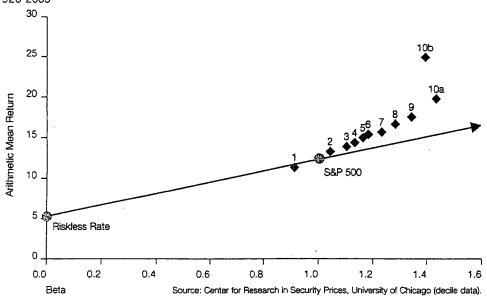
Note: These numbers may not aggregate to equal decile 10 figures. Source: Center for Research in Security Prices, University of Chicago.

Table 7-7
Long-Term Returns in Excess of CAPM Estimation for Decile Portfolios of the NYSE/AMEX/NASDAQ, with 10th Decile Split 1926–2005

|                 | Beta* | Arithmetic<br>Mean<br>Return | Realized<br>Return in<br>Excess of<br>Riskless Rate** | Estimated<br>Return in<br>Excess of<br>Riskless Rate† | Size Premium<br>(Return in<br>Excess of<br>CAPM) |
|-----------------|-------|------------------------------|---|---|--|
| 1-Largest       | 0.91  | 11.29%                       | 6.07%   | 6.45%   | -0.37%   |
| 2               | 1.04  | 13.22%                       | 8.00%   | 7.33%   | 0.67%  |
| 3               | 1.10  | 13.84%                       | 8.62%   | 7.77%   | 0.85%  |
| 4               | 1.13  | 14.31%                       | 9.09%   | 7.98%   | 1.10%  |
| 5               | 1.16  | 14.91%                       | 9.69%   | 8.20%   | 1.49%  |
| 6               | 1.18  | 15.33%                       | 10.11%  | 8.38%   | 1.73%  |
| 7               | 1.23  | 15.62%                       | 10.40%  | 8.73%   | 1.67%  |
| 8               | 1.28  | 16.60%                       | 11.38%  | 9.05%   | 2.33%  |
| 9               | 1.34  | 17.48%                       | 12.26%  | 9.50%   | 2.76%  |
| 10a             | 1.43  | 19.71%                       | 14.49%  | 10.10%  | 4.39%  |
| 10b-Smallest    | 1.39  | 24.87%                       | 19.65%  | 9.82%   | 9.83%  |
| Mid-Cap, 3-5    | 1.12  | 14.15%                       | 8.94%   | 7.91%   | 1.02%  |
| Low-Cap, 6-8    | 1.22  | 15.66%                       | 10.44%  | 8.63%   | 1.81%  |
| Micro-Cap, 9-10 | 1.36  | 18.77%                       | 13.55%  | 9.61%   | 3.95%  |

<sup>\*</sup>Betas are estimated from monthly portfolio total returns in excess of the 30-day U.S. Treasury bill total return versus the S&P 500 total returns in excess of the 30-day U.S. Treasury bill, January 1926–December 2005.

Graph 7-3
Security Market Line versus Size-Decile Portfolios of the NYSE/AMEX/NASDAQ, with 10th Decile Split 1926-2005



<sup>\*\*</sup>Historical riskless rate is measured by the 80-year arithmetic mean income return component of 20-year government bonds (5.22 percent).

<sup>†</sup>Calculated in the context of the CAPM by multiplying the equity risk premium by beta. The equity risk premium is estimated by the arithmetic mean total return of the S&P 500 (12.30 percent) minus the arithmetic mean income return component of 20-year government bonds (5.22 percent) from 1926–2005.

Table 7-8
Historical Number of Companies for NYSE/AMEX/NASDAQ Decile 10

| Sept. | Number of Companies |  |  |
|-------|---------------------|--|--|
| 1926  | 52'                 |  |  |
| 1930  | 72                  |  |  |
| 1940  | 78                  |  |  |
| 1950  | . 100               |  |  |
| 1960  | 109                 |  |  |
| 1970  | 865                 |  |  |
| 1980  | 685                 |  |  |
| 1990  | 1,814               |  |  |
| 2000  | 1,927               |  |  |
| 2005  | 1,746               |  |  |
|       |                     |  |  |

<sup>\*</sup>The fewest number of companies was 49 in March, 1926

Source: Center for Research in Security Prices, University of Chicago.

#### Alternative Methods of Calculating the Size Premia

The size premia estimation method presented above makes several assumptions with respect to the market benchmark and the measurement of beta. The impact of these assumptions can best be examined by looking at some alternatives. In this section we will examine the impact on the size premia of using a different market benchmark for estimating the equity risk premia and beta. We will also examine the effect on the size premia study of using sum beta or an annual beta.

#### Changing the Market Benchmark

In the original size premia study, the S&P 500 is used as the market benchmark in the calculation of the realized historical equity risk premium and of each size group's beta. The NYSE total value-weighted index is a common alternative market benchmark used to calculate beta. Table 7-9 uses this market benchmark in the calculation of beta. In order to isolate the size effect, we require an equity risk premium based on a large company stock benchmark. The NYSE deciles 1-2 large company index offers a mutually exclusive set of portfolios for the analysis of the smaller company groups: mid-cap deciles 3-5, low-cap deciles 6-8, and micro-cap deciles 9-10. The size premia analyses using these benchmarks are summarized in Table 7-9 and depicted graphically in Graph 7-4.

For the entire period analyzed, 1926–2005, the betas obtained using the NYSE total value-weighted index are higher than those obtained using the S&P 500. Since smaller companies had higher betas using the NYSE benchmark, one would expect the size premia to shrink. However, as was illustrated in Chapter 5, the equity risk premium calculated using the NYSE deciles 1–2 benchmark results in a value of 6.33, as opposed to 7.08 when using the S&P 500. The effect of the higher betas and lower equity risk premium cancel each other out, and the resulting size premia in Table 7-9 are slightly higher than those resulting from the original study.

<sup>4</sup> Sum beta is the method of beta estimation described in Chapter 6 that was developed to better account for the lagged reaction of small stocks to market movements. The sum beta methodology was developed for the same reason that the size premia were developed; small company betas were too small to account for all of their excess returns.

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### CORPORATE RATINGS CRITE

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#### **Utilities**

The utilities rating methodology encompasses two basic components: business risk analysis and financial analysis. Evaluation of industry characteristics, the utility's position within that industry, its regulation, and its management provides the context for assessing a firm's financial condition.

Historical analysis is a tool for identifying strengths and weaknesses, and provides a starting point for evaluating financial condition. Business position assessment is the qualitative measure of a utility's fundamental creditworthiness. It focuses on the forces that will shape the utilities' future.

| *****                                   |   |
|---|---|
| Utilities credit analys                 | is factors  |
| •                                       |   |
| Business risk                           | Financial risk                                    |
| Dubiliess Her                           | rmancia) (15%                                     |
| * Markets and service area              | * Earnings protection                             |
|   | · · · · · · · · · · · · · · · · · · ·             |
| economy                                 | Capital structure                                 |
| Competitive position                    |   |
| A POSITIONARA POSITICI                  | <ul> <li>Cash flow adequacy</li> </ul>            |
| <ul> <li>Operations</li> </ul>          |   |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | <ul> <li>Financial flexibility/capital</li> </ul> |
| <ul> <li>Regulation</li> </ul>          | attraction  |
| **                                      |   |
| <ul> <li>Management</li> </ul>          |   |
| * Fuel, power, and water                |   |
|   |   |
| supply                                  |   |
| * Asset concentration                   |   |
| TO MARKE WAS DESCRIBED AS               |   |
|   |   |

The credit analysis of utilities is quickly evolving, as utilities are treated less as regulated monopolies and more as entities faced with a host of challengers in a competitive environment. Marketplace dynamics are supplanting the power of regulation, making it critically important to reduce costs and/or market new services in order to thwart competitors' inroads.

#### Markets and service area economy

Assessing service territory begins with the economic and demographic evaluation of the area in which the utility has its franchise. Strength of long-term demand for the product is examined from a macroeconomic perspective. This enables Standard & Poor's to evaluate the affordability of rates and the staying power of demand.

Standard & Poor's tries to discern any secular consumption trends and, more importantly, the reasons for them. Specific items examined include the size and growth rate of the market, strength of the franchise, historical and projected sales growth, income levels and trends in population, employment, and per capita income. A utility with a healthy economy and customer base—as illustrated by diverse employment opportunities, average or above-average wealth and income statistics, and low unemploy-

ment—will have a greater capacity to support its operations.

For electric and gas utilities, distribution by customer class is scrutinized to assess the depth and diversity of the utility's customer mix. For example, heavy industrial concentration is viewed cautiously, since a utility may have significant exposure to cyclical volatility. Alternatively, a large residential component yields a stable and more predictable revenue stream. The largest utility customers are identified to determine their importance to the bottom line and assess the risk of their loss and potential adverse effect on the utility's financial position. Credit concerns arise when individual customers represent more than 5% of revenues. The company or industry may play a significant role in the overall economic base of the service area. Moreover, large customers may turn to cogeneration or alternative power supplies to meet their energy needs, potentially leading to reduced cash flow for the utility (even in cases where a large customer pays discounted rates and is not a profitable account for the utility). Customer concentration is less significant for water and telecommunication utilities.

#### Competitive position

As competitive pressures have intensified in the utilities industry, Standard & Poor's analysis has deepened to include a more thorough review of competitive position.

#### Electric utility competition

For electric utilities, competitive factors examined include: percentage of firm wholesale revenues that are most vulnerable to competition; industrial load concentration; exposure of key customers to alternative suppliers; commercial concentrations; rates for various customer classes; rate design and flexibility; production costs, both marginal and fixed; the regional capacity situation; and transmission constraints. A regional focus is evident, but high costs and rates relative to national averages are also of significant concern because of the potential for electricity substitutes over time.

Mounting competition in the electric utility industry derives from excess generating capacity, lower barriers to entering the electric generating business, and marginal costs that are below embedded costs. Standard & Poor's has already witnessed declining prices in wholesale markets, as de facto retail competition is already being seen in several parts of the country. Standard & Poor's believes that over the coming years more and more customers will want and demand lower prices. Initial concerns focus on the largest industrial loads, but other customer classes will be increasingly vulnerable. Competition will not necessar-

ily be driven by legislation. Other pressures will arise from global competition and improving technologies, whether it be the declining cost of incremental generation or advances in transmission capacity or substitute energy sources like the fuel cell. It is impossible to say precisely when wide-open retail competition will occur; this will be evolutionary. However, significantly greater competition in retail markets is inevitable.

#### Gas utility competition

Similarly, gas utilities are analyzed with regard to their competitive standing in the three major areas of demand: residential, commercial, and industrial. Although regulated as holders of monopoly power, natural gas utilities have for some time been actively competing for energy market share with fuel oil, electricity, coal, solar, wood, etc. The long-term staying power of market demand for natural gas cannot be taken for granted. In fact, as the electric utility industry restructures and reduces costs, electric power will become more cost competitive and threaten certain gas markets. In addition, independent gas marketers have made greater inroads behind the city gate and are competing for large gas users. Moreover, the recent trend by state regulators to unbundle utility services is creating opportunities for outsiders to market niche products. Distributors still have the upper hand, but those who do not reduce and control costs, and thus rates, could find competition even more difficult.

Natural gas pipelines are judged to carry a somewhat higher business risk than distribution companies because they face competition in every one of their markets. To the extent a pipeline serves utilities versus industrial end users, its stability is greater. Over the next five years, pipeline competition will heat up since many service contracts with customers are expiring. Most distributor or end-use customers are looking to reduce pipeline costs and are working to improve their load factor to do so. Thus, pipelines will likely find it difficult to recontract all capacity in coming years. Being the pipeline of choice is a function of attractive transportation rates, diversity and quality of services provided, and capacity available in each particular market. In all cases though, periodic discounting of rates to retain customers will occur and put pressure on profitability.

#### Water utility competition

As the last true utility monopoly, water utilities face very little competition and there is currently no challenge to the continuation of franchise areas. The only exceptions have been cases where investor-owned water companies have been subject to condemnation and municipalization because of poor service or political motivations. In that regard, Standard & Poor's pays close attention to costs and rates in relation to neighboring utilities and national averages. (In contrast, the privatization of public water facilities has begun, albeit at a slower pace than anticipated. This is occurring mostly in the form of operating contracts and public/private partnerships, and not in asset transfers. This trend should continue as cities look for ways to bal-

ance their tight budgets.) Also, water utilities are not fully immune to the forces of competition; in a few instances wholesale customers can access more than one supplier.

#### Telephone competition

The Telecommunications Act of 1996 accelerates the continuing challenge to the local exchange companies' (LECs) century-old monopoly in the local loop. Competitive access providers (CAPs), both facilities-based and resellers, are aggressively pursuing customers, generally targeting metropolitan areas, and promising lower rates and better service.

Most long-distance calls are still originated and terminated on the local telephone company network. To complete such a call, the long-distance provider (including AT&T, MCI, Sprint and a host of smaller interexchange carriers or "IXCs") must pay the local telephone company a steep "access" fee to compensate the local phone company for the use of its local network. CAPs, in contrast, build or lease facilities that directly connect customers to their long-distance carrier, bypassing the local telephone company and avoiding access fees, and thereby can offer lower long-distance rates. But the LECs are not standing still; they are combating the loss of business to CAPs by lowering access fees, thereby reducing the economic incentive for a high usage long-distance customer to use a CAP. LECs are attempting to make up for the loss of revenues from lower access fees by increasing basic local service rates (or at least not lowering them), since basic service is far less subject to competition. LECs are improving operating efficiency and marketing high margin, value-added new services. Additionally, in the wake of the Telecommunications Act, LECs will capture at least some of the inter-LATA long-distance market. As a result of these initiatives, LECs continue to rebuild themselves—from the traditional utility monopoly to leaner, more marketing oriented organizations.

While LECs, and indeed all segments of the telecommunications sector, face increasing competition, there are favorable industry factors that tend to offset heightened business risk and auger for overall ratings stability for most LECs. Importantly, telecommunications is a declining-cost business. With increased deployment of fiber optics, the cost of transport has fallen dramatically and digital switching hardware and software have yielded more capable, trouble-free and cost-efficient networks. As a result, the cost of network maintenance has dropped sharply, as illustrated by the ratio of employees per 10,000 access lines, an oft cited measurement of efficiency. Ratios as low as 25 employees per 10,000 lines are being seen, down from the typical 40 or more employees per 10,000 ratio of only a few years ago.

In addition, networks are far more capable. They are increasingly digitally switched and able to accommodate high-speed communications. The infrastructure needed to accommodate switched broadband services will be built into telephone networks over the next few years. These advanced networks will enable telephone companies to look to a greater variety of high-margin, value-added serv-

ices. In addition to those current services such as call waiting or caller ID, the delivery of hundreds of broadcast and interactive video channels will be possible. While these services offer the potential of new revenue streams, they will simultaneously present a formidable challenge. LECs will be entering the new (to them) arena of multimedia entertainment and will have to develop expertise in marketing and entertainment programming acumen; such skills stand in sharp contrast to LECs' traditional strengths in engineering and customer service.

#### Operations

Standard & Poor's focuses on the nature of operations from the perspective of cost, reliability, and quality of service. Here, emphasis is placed on those areas that require management attention in terms of time or money and which, if unresolved, may lead to political, regulatory, or competitive problems.

#### Operations of electric utilities

For electrics, the status of utility plant investment is reviewed with regard to generating plant availability and utilization, and also for compliance with existing and contemplated environmental and other regulatory standards. The record of plant outages, equivalent availability, load factors, heat rates, and capacity factors are examined. Also important is efficiency, as defined by total megawatt hour per employee and customers per employee. Transmission interconnections are evaluated in terms of the number of utilities to which the utility in question has access, the cost structures and available generating capacity of these other utilities, and the price paid for wholesale power.

Because of mounting competition and the substantial escalation in decommissioning estimates, significant weight is given to the operation of nuclear facilities. Nuclear plants are becoming more vulnerable to high production costs that make their rates uneconomic. Significant asset concentration may expose the utility to poor performance, unscheduled outages or premature shutdowns, and large deferrals or regulatory assets that may need to be written off for the utility to remain competitive. Also, nuclear facilities tend to represent significant portions of their operators' generating capability and assets. The loss of a productive nuclear unit from both power supply and rate base can interrupt the revenue stream and create substantial additional costs for repairs and improvements and replacement power. The ability to keep these stations running smoothly and economically directly influences the ability to meet electric demand, the stability of revenues and costs, and, by extension, the ability to maintain adequate creditworthiness. Thus, economic operation, safe operation, and long-term operation are examined in depth. Specifically, emphasis is placed on operation and maintenance costs, busbar costs, fuel costs, refueling outages, forced outages, plant statistics, NRC evaluations, the potential need for repairs, operating licenses, decommissioning estimates and amounts held in external trusts, spent fuel storage capacity, and management's nuclear experience. In essence, favorable nuclear operations offer significant opportunities but, if a nuclear unit runs poorly or not at all, the attendant risks can be great.

#### Operations of gas utilities

For gas pipeline and distribution companies, the degree of plant utilization, the physical condition of the mains and lines, adequacy of storage to meet seasonal needs, "lost and unaccounted for" gas levels, and per-unit nongas operating and construction costs are important factors. Efficiency statistics such as load factor, operating costs per customer, and operating income per employee are also evaluated in comparison to other utilities and the industry as a whole.

#### Operations of water utilities

As a group, water utilities are continually upgrading their physical plant to satisfy regulations and to develop additional supply. Over the next decade, water systems will increasingly face the task of maintaining compliance, as drinking water regulations change and infrastructure ages. Given that the Safe Drinking Water Act was authorized in 1974, the first generation of treatment plants built to conform with these rules are almost 20 years old. Additionally, because the focus during this period was on satisfying environmental standards, deferred maintenance of distribution systems has been common, especially in older urban areas. The increasing cost of supplying treated water argues against the high level of unaccounted for water witnessed in the industry. Consequently, Standard & Poor's anticipates capital plans for rebuilding distribution lines and major renewal and replacement efforts aimed at treatment plants.

#### Operations of telephone companies

For telephone companies, cost-of-service analysis focuses on plant capability and measures of efficiency and quality of service. Plant capability is ascertained by looking at such parameters as percentage of digitally switched lines; fiber optic deployment, in particular in those portions of the plant key to network survival; and the degree of broadband capacity fiber and coaxial deployment and broadband switching capacity. Efficiency measures include operating margins, the ratio of employees per 10,000 access lines, and the extent of network and operations consolidation. Quality of service encompasses examination of quantitative measures, such as trouble reports and repeat service calls, as well as an assessment of qualitative factors, that may include service quality goals mandated by regulators.

#### Regulation

Regulatory rate-setting actions are reviewed on a caseby-case basis with regard to the potential effect on creditworthiness. Regulators' authorizing high rates of return is of little value unless the returns are earnable. Furthermore, allowing high returns based on noncash items does not benefit bondholders. Also, to be viewed positively, regulatory treatment should allow consistent performance from

period to period, given the importance of financial stability as a rating consideration.

The utility group meets frequently with commission and staff members, both at Standard & Poor's offices and at commission headquarters, demonstrating the importance Standard & Poor's places on the regulatory arena for credit quality evaluation. Input from these meetings and from review of rate orders and their impact weigh heavily in Standard & Poor's analysis.

Standard & Poor's does not "rate" regulatory commissions. State commissions typically regulate a number of diverse industries, and regulatory approaches to different types of companies often differ within a single regulatory jurisdiction. This makes it all but impossible to develop inclusive "ratings" for regulators.

Standard & Poor's evaluation of regulation also encompasses the administrative, judicial, and legislative processes involved in state and federal regulation. These can affect rate-setting activities and other aspects of the business, such as competitive entry, environmental and safety rules, facility siting, and securities sales.

As the utility industry faces an increasingly deregulated environment, alternatives to traditional rate-making are becoming more critical to the ability of utilities to effectively compete, maintain earnings power, and sustain creditor protection. Thus, Standard & Poor's focuses on whether regulators, both state and federal, will help or hinder utilities as they are exposed to greater competition. There is much that regulators can do, from allocating costs to more captive customers to allowing pricing flexibility—and sometimes just stepping out of the way.

Under traditional rate-making, rates and earnings are tied to the amount of invested capital and the cost of capital. This can sometimes reward companies more for justifying costs than for containing them. Moreover, most current regulatory policies do not permit utilities to be flexible when responding to competitive pressures of a deregulated market. Lack of flexible tariffs for electric utilities may lure large customers to wheel cheaper power from other sources.

In general, a regulatory jurisdiction is viewed favorably if it permits earning a return based on the ability to sustain rates at competitive levels. In addition to performance-based rewards or penalties, flexible plans could include market-based rates, price caps, index-based prices, and rates premised on the value of customer service. Such rates more closely mirror the competitive environment that utilities are confronting.

#### Electric industry regulation

The ability to enter into long-term arrangements at negotiated rates without having to seek regulatory approval for each contract is also important in the electric industry. (While contracting at reduced rates constrains financial performance, it lessens the potential adverse impact in the event of retail wheeling. Since revenue losses associated with this strategy are not likely to be recovered from rate-payers, utilities must control costs well enough to remain

competitive if they are to sustain current levels of bond-holder protection.)

#### Natural gas industry regulation

In the gas industry, too, several state commission policies weigh heavily in the evaluation of regulatory support. Examples include stabilization mechanisms to adjust revenues for changes in weather or the economy, rate and service unbundling decisions, revenue and cost allocation between sales and transportation customers, flexible industrial rates, and the general supportiveness of construction costs and gas purchases.

#### Water industry regulation

In all water utility activities, federal and state environmental regulations continue to play a critical role. The legislative timetable to effect the 1986 amendments to the Safe Drinking Water Act of 1974 was quite aggressive. But environmental standards-setting has actually slowed over the past couple of years due largely to increasing sentiment that the stringent, costly standards have not been justified on the basis of public health. A moratorium on the promulgation of significant new environmental rules is anticipated.

#### Telecommunications industry regulation

Despite the advances in telecommunications deregulation, analysis of regulation of telephone operators will continue to be a key rating determinant for the foreseeable future. The method of regulation may be either classic rate-based rate of return or some form of price cap mechanism. The most important factor is to assess whether the regulatory framework—no matter which type—provides sufficient financial incentive to encourage the rated company to maintain its quality of service and to upgrade its plant to accommodate new services while facing increasing competition from wireless operators and cable television companies.

Where regulators do still set tariffs based on an authorized return, Standard & Poor's strives to explore with regulators their view of the rate-of-return components that can materially impact reported versus regulatory earnings. Specifically these include the allowable base upon which the authorized return can be earned, allowable expenses, and the authorized return. Since regulatory oversight runs the gamut from strict, adversarial relationships with the regulated operating companies to highly supportive postures, Standard & Poor's probes beyond the apparent regulatory environment to ascertain the actual impact of regulation on the rated company.

#### Management

Evaluating the management of a utility is of paramount importance to the analytical process since management's abilities and decisions affect all areas of a company's operations. While regulation, the economy, and other outside factors can influence results, it is ultimately the quality of management that determines the success of a company.

With emerging competition, utility management will be more closely scrutinized by Standard & Poor's and will become an increasingly critical component of the credit evaluation. Management strategies can be the key determinant in differentiating utilities and in establishing where companies lie on the business position spectrum. It is imperative that managements be adaptable, aggressive, and proactive if their utilities are to be viable in the future; this is especially important for utilities that are currently uncompetitive.

The assessment of management is accomplished through meetings, conversations, and reviews of company plans. It is based on such factors as tenure, industry experience, grasp of industry issues, knowledge of customers and their needs, knowledge of competitors, accounting and financing practices, and commitment to credit quality. Management's ability and willingness to develop workable strategies to address their systems' needs, to deal with the competitive pressures of free market, to execute reasonable and effective long-term plans, and to be proactive in leading their utilities into the future are assessed. Management quality is also indicated by thoughtful balancing of public and private priorities, a record of credibility, and effective communication with the public, regulatory bodies, and the financial community. Boards of directors will receive ever more attention with respect to their role in setting appropriate management incentives.

With competition the watchword, Standard & Poor's also focuses on management's efforts to enhance financial condition. Management can bolster bondholder protection by taking any number of discretionary actions, such as selling common equity, lowering the common dividend payout, and paying down debt. Also important for the electric industry will be creativity in entering into strategic alliances and working partnerships that improve efficiency, such as central dispatching for a number of utilities or locking up at-risk customers through long-term contracts or expanded flexible pricing agreements. Proactive management teams will also seek alternatives to traditional rate-base, rate-of-return rate-making, move to adopt higher depreciation rates for generating facilities, segment customers by individual market preferences, and attempt to create superior service organizations.

In general, management's ability to respond to mounting competition and changes in the utility industry in a swift and appropriate manner will be necessary to maintain credit health.

#### Fuel, power, and water supply

Assessment of present and prospective fuel and power supply is critical to every electric utility analysis, while gauging the long-term natural gas supply position for gas pipeline and distribution companies and the water resources of a water utility is equally important. There is no similar analytical category for telephone utilities.

#### Electric utilities

For electric utilities emphasis is placed on generating

reserve margins, fuel mix, fuel contract terms, demand-side management techniques, and purchased power arrangements. The adequacy of generating margins is examined nationally, regionally, and for each individual company. However, the reserve margin picture is muddied by the imprecise nature of peak-load growth forecasting, and also supply uncertainty relating to such things as Canadian capacity availability and potential plant shutdowns due to age, new NRC rules, acid rain remedies, fuel shortages, problems associated with nontraditional technologies, and so forth. Even apparently ample reserves may not be what they seem. Moreover, the quality of capacity is just as important as the size of reserves. Companies' reserve requirements differ, depending upon individual operating characteristics.

Fuel diversity provides flexibility in a changing environment. Supply disruptions and price hikes can raise rates and ignite political and regulatory pressures that ultimately lead to erosion in financial performance. Thus, the ability to alter generating sources and take advantage of lower cost fuels is viewed favorably.

Dependence on any single fuel means exposure to that fuel's problems: electric utilities that rely on oil or gas face the potential for shortages and rapid price increases; utilities that own nuclear generating facilities face escalating costs for decommissioning; and coal-fired capacity entails environmental problems stemming from concerns over acid rain and the "greenhouse effect."

Buying power from neighboring utilities, qualifying facility projects, or independent power producers may be the best choice for a utility that faces increasing electricity demand. There has been a growing reliance on purchased power arrangements as an alternative to new plant construction. This can be an important advantage, since the purchasing utility avoids potential construction cost overruns as well as risking substantial capital. Also, utilities can avoid the financial risks typical of a multiyear construction program that are caused by regulatory lag and prudence reviews. Furthermore, purchased power may enhance supply flexibility, fuel resource diversity, and maximize load factors. Utilities that plan to meet demand projections with a portfolio of supply-side options also may be better able to adapt to future growth uncertainties. Notwithstanding the benefits of purchasing, such a strategy has risks associated with it. By entering into a firm long-term purchased power contract that contains a fixed-cost component, utilities can incur substantial market, operating, regulatory, and financial risks. Moreover, regulatory treatment of purchased power removes any upside potential that might help offset the risks. Utilities are not compensated through incentive rate-making; rather, purchased power is recovered dollar-for-dollar as an operating expense.

To analyze the financial impact of purchased power, Standard & Poor's first calculates the net present value of future annual capacity payments (discounted at 10%). This represents a potential debt equivalent—the off-balance-sheet obligation that a utility incurs when it enters into a long-term purchased power contract. However, Standard

& Poor's adds to the utility's balance sheet only a portion of this amount, recognizing that such a contractual arrangement is not entirely the equivalent of debt. What percentage is added is a function of Standard & Poor's qualitative analysis of the specific contract and the extent to which market, operating, and regulatory risks are borne by the utility (the risk factor). For unconditional, take-orpay contracts, the risk factor range is from 40%-80%, with the average hovering around 60%. A lower risk factor is typically assigned for system purchases from coal-fired utilities and a higher risk factor is usually designated for unit-specific nuclear purchases. The range for take-and-pay performance obligations is between 10%-50%.

#### Gas utilities

For gas distribution utilities, long-term supply adequacy obviously is critical, but the supply role has become even more important in credit analysis since the Federal Energy Regulatory Commission's Order 636 eliminated the interstate pipeline merchant business. This thrust gas supply responsibilities squarely on local gas distributors. Standard & Poor's has always believed distributor management has the expertise and wherewithal to perform the job well, but the risks are significant since gas costs are such a large percentage of total utility costs. In that regard, it is important for utilities to get preapprovals of supply plans by state regulators or at least keep the staff and commissioners well informed. To minimize risks, a well-run program would diversify gas sources among different producers or marketers, different gas basins in the U.S. and Canada, and different pipeline routes. Also, purchase contracts should be firm, with minimal take-or-pay provisions, and have prices tied to an industry index. A modest percentage of fixed-price gas is not unreasonable. Contracts, whether of gas purchases or pipeline capacity, should be intermediate term. Staggering contract expirations (preferably annually) provides an opportunity to be an active market player. A modest degree of reliance on spot purchases provides flexibility, as does the use of market-based storage. Gas storage and on-property gas resources such as liquefied natural gas or propane air are effective peak-day and peakseason supply management tools.

Since pipeline companies no longer buy and sell natural gas and are just common carriers, connections with varied reserve basins and many wells within those basins are of great importance. Diversity of sources helps offset the risks arising from the natural production declines eventually experienced by all reserve basins and individual wells. Moreover, such diversity can enhance a pipeline's attractiveness as a transporter of natural gas to distributors and end users seeking to buy the most economical gas available for their needs.

#### Water utilities

Nearly all water systems throughout the U.S. have ample long-term water supplies. Yet to gain comfort, Standard & Poor's assesses the production capability of treatment plants and the ability to pump water from underground aquifers in relation to the usage demands from consumers.

Having adequate treated water storage facilities has become important in recent years and has helped many systems meet demands during peak summer periods. Of interest is whether the resources are owned by the utility or purchased from other utilities or local authorities. Owning properties with water rights provides more supply security. This is especially so in states like California where water allocations are being reduced, particularly since recent droughts and environmental issues have created alarm. Since the primary cost for water companies is treatment, it makes little difference whether raw water is owned or bought. In fact, compliance with federal and state water regulations is very high, and the overall cost to deliver treated water to consumers remains relatively affordable.

### Asset concentration in the electric utility industry

In the electric industry, Standard & Poor's follows the operations of major generating facilities to assess if they are well managed or troubled. Significant dependence on one generating facility or a large financial investment in a single asset suggests high risk. The size or magnitude of a particular asset relative to total generation, net plant in service, and common equity is evaluated. Where substantial asset concentration exists, the financial profile of a company may experience wide swings depending on the asset's performance. Heavy asset concentration is most prevalent among utilities with costly nuclear units.

#### Earnings protection

In this category, pretax cash income coverage of all interest charges is the primary ratio. For this calculation, allowance for funds used during construction (AFUDC) is removed from income and interest expense. AFUDC and other such noncash items do not provide any protection for bondholders. To identify total interest expense, the analyst reclassifies certain operating expenses. The interest component of various off-balance-sheet obligations, such as leases and some purchased-power contracts, is included in interest expense. This provides the most direct indication of a utility's ability to service its debt burden.

While considerable emphasis in assessing credit protection is placed on coverage ratios, this measure does not provide the entire earnings protection picture. Also important are a company's earned returns on both equity and capital, measures that highlight a firm's earnings performance. Consideration is given to the interaction of embedded costs, financial leverage, and pretax return on capital.

#### Capital structure

Analyzing debt leverage goes beyond the balance sheet and covers quasi-debt items and elements of hidden financial leverage. Noncapitalized leases (including sale/lease-back obligations), debt guarantees, receivables financing, and purchased-power contracts are all considered debt equivalents and are reflected as debt in calculating capital

structure ratios. By making debt level adjustments, the analyst can compare the degree of leverage used by each utility company.

Furthermore, assets are examined to identify undervalued or overvalued items. Assets of questionable value are discounted to more accurately evaluate asset protection.

Some firms use short-term debt as a permanent piece of their capital structure. Short-term debt also is considered part of permanent capital when it is used as a bridge to permanent financing. Seasonal, self-liquidating debt is excluded from the permanent debt amount, but this situation is rare—with the exception of certain gas utilities. Given the long life of almost all utility assets, short-term debt may expose these companies to interest-rate volatility, remarketing risk, bank line backup risk, and regulatory exposure that cannot be readily offset. The lower cost of shorter-term obligations (assuming a positively sloped yield curve) is a positive factor that partially mitigates the risk of interest-rate variability. As a rule of thumb, a level of short-term debt that exceeds 10% of total capital is cause for concern.

Similarly, if floating-rate debt and preferred stock constitute over one-third of total debt plus preferred stock, this level is viewed as unusually high and may be cause for concern. It might also indicate that management is aggressive in its financial policies.

A layer of preferred stock in the capital structure is usually viewed as equity-since dividends are discretionary and the subordinated claim on assets provides a cushion for providers of debt capital. A preferred component of up to 10% is typically viewed as a permanent wedge in the capital structure of utilities. However, as rate-of-return regulation is phased out, preferred stock may be viewed by utilities—as many industrial firms would—as a temporary option for companies that are not current taxpayers that do not benefit from the tax deductibility of interest. Even now, floating-rate preferred and money market perpetual preferred are problematic; a rise in the rate due to deteriorating credit quality tends to induce a company to take out such preferred stock with debt. Structures that convey tax deductibility to preferred stock have become very popular and do generally afford such financings with equity treatment.

#### Cash flow adequacy

Cash flow adequacy relates to a company's ability to generate funds internally relative to its needs. It is a basic component of credit analysis because it takes cash to pay expenses, fund capital spending, pay dividends, and make interest and principal payments. Since both common and preferred dividend payments are important to maintain capital market access, Standard & Poor's looks at cash flow measures both before and after dividends are paid.

To determine cash flow adequacy, several quantitative relationships are examined. Emphasis is placed on cash flow relative to debt, debt service requirements, and capital spending. Cash flow adequacy is evaluated with respect to a firm's ability to meet all fixed charges, including capacity payments under purchased-power contracts. Despite the conditional nature of some contracts, the purchaser is obligated to pay a minimum capacity charge. The ratio used is funds from operations plus interest and capacity payments divided by interest plus capacity payments.

#### Financial flexibility/capital attraction

Financing flexibility incorporates a utility's financing needs, plans, and alternatives, as well as its flexibility to accomplish its financing program under stress without damaging creditworthiness. External funding capability complements internal cash flow. Especially since utilities are so capital intensive, a firm's ability to tap capital markets on an ongoing basis must be considered. Debt capacity reflects all the earlier elements: earnings protection, debt leverage, and cash flow adequacy. Market access at reasonable rates is restricted if a reasonable capital structure is not maintained and the company's financial prospects dim. The analyst also reviews indenture restrictions and the impact of additional debt on covenant tests.

Standard & Poor's assesses a company's capacity and willingness to issue common equity. This is affected by various factors, including the market-to-book ratio, dividend policy, and any regulatory restrictions regarding the composition of the capital structure.





# Standard & Poor's UTILITIES PERSPECTIVES

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# New Business Profile Scores Assigned for U.S. Utility and Power Companies; Financial Guidelines Revised

Candard & Poor's Ratings Services has assigned new business profile scores to U.S. utility and power companies to better reflect the relative business risk among companies in the sector. Standard & Poor's also has revised its published risk-adjusted financial guidelines. The new business scores and financial guidelines do not represent a change to Standard & Poor's ratings criteria or methodology, and no ratings changes are anticipated from the new business profile scores or revised financial guidelines.

#### New Business Profile Scores and Revised Financial Guidelines

Standard & Poor's has always monitored changes in the industry and altered its business risk assessments accordingly. This is the first time since the 10-point business pro-

file scale for U.S. investor-owned utilities was implemented that a comprehensive assessment of the benefits and the application of the methodology has been made. The principal purpose was to determine if the methodology continues to provide meaningful differentiation of business risk. The review indicated that while business profile scoring continues to provide analytical benefits, the complete range of the 10-point scale was not being utilized to the fullest extent.

Standard & Poor's has also revised the key financial guidelines that it uses as an integral part of evaluating the credit quality of U.S. utility and power companies. These guidelines were last updated in June 1999. The financial guidelines for three principal ratios (funds from operations (FFO) interest coverage, FFO to total debt, and total debt to total capital) have been broadened so as to be more flexible. Pretax interest cov-

Chart 1

Distribution of Business Profile Scores

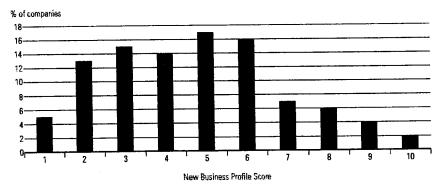
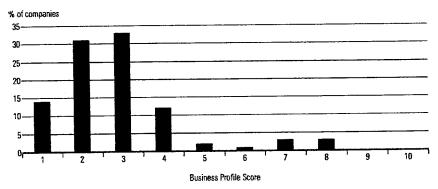


Chart 2
Transmission and Distribution—Water, Gas, and Electric



erage as a key credit ratio was eliminated.

Finally, Standard & Poor's has segmented the utility and power industry into sub-sectors based on the dominant corporate strategy that a company is pursuing. Standard & Poor's has published a new U.S. utility and power company ranking list that reflects these sub-sectors.

There are numerous benefits to the reassessment. Fuller utilization of the entire 10-point scale provides a superior relative ranking of qualitative business risk. A revision of the financial guidelines supports the goal of not causing rating changes from the recalibration of the business profiles. Classification of companies by sub-sectors will ensure greater comparability and consistency in ratings. The use of industry segmentation will also allow more in-depth statistical analysis of ratings distributions and rating changes.

The reassessment does not represent a change to Standard & Poor's criteria or methodology for determining ratings for utility and power companies. Each business profile score should be considered as the assignment of a new score; these scores do not represent improvement or deteri-

oration in our assessment of an individual company's business risk relative to the previously assigned score. The financial guidelines continue to be risk-adjusted based on historical utility and industrial medians. Segmentation into industry sub-sectors does not imply that specific company characteristics will not weigh heavily into the assignment of a company's business profile score.

### Results

Previously, 83% of U.S. utility and power business profile scores fell between '3' and '6', which clearly does not reflect the risk differentiation that exists in the utility and power industry today. Since the 10-point scale was introduced, the industry has transformed into a much less homogenous industry, where the divergence of business risk—particularly regarding management, strategy, and degree of competitive market exposure—has created a much wider spectrum of risk profiles. Yet over the same period, business profile scores actually converged more tightly around a median score of '4'. The new business pro-

Chart 3

Transmission Only—Electric, Gas, and Other

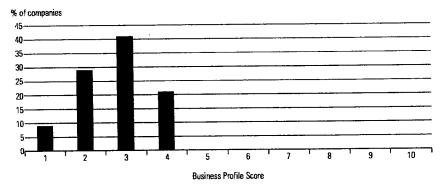
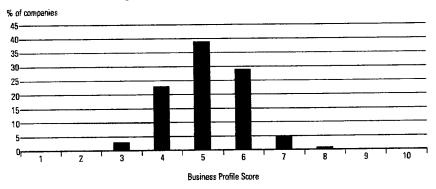


Chart 4

Integrated Electric, Gas, and Combination Utilities





file scores, as of June 2, are shown in Chart 1. The overall median business profile score is now '5'.

Table 1 contains the revised financial guidelines. It is important to emphasize that these metrics are only guidelines associated with expectations for various rating levels. Although credit ratio analysis is an important part of the ratings process, these three statistics are by no means the only critical financial measures that Standard & Poor's uses in its analytical process. We also analyze a wide array of financial ratios that do not have published guidelines for each rating category.

Again, ratings analysis is not driven solely by these financial ratios, nor has it ever been. In fact, the new financial guidelines that Standard & Poor's is incorporating for the specified rating categories reinforce the analytical framework whereby other factors can outweigh the achievement of otherwise acceptable financial ratios. These factors include:

- Effectiveness of liability and liquidity management;
- Analysis of internal funding sources;

- Return on invested capital;
- The execution record of stated business strategies;
- Accuracy of projected performance versus actual results, as well as the trend;
- Assessment of management's financial policies and attitude toward credit; and
- Corporate governance practices.

Charts 2 through 6 show business profile scores broken out by industry sub-sector. The five industry sub-sectors are:

- Transmission and distribution—Water, gas, and electric;
- Transmission only—Electric, gas, and other;
- Integrated electric, gas, and combination utilities;
- Diversified energy and diversified nonenergy, and
- Energy merchant/power developer/trading and marketing companies.

The average business profile scores for transmission and distribution companies and transmission-only companies are lower on the scale than the previous averages, while the average business profile scores for integrated utilities, diversified energy, and energy merchants and developers are higher.

Chart 5

Diversified Energy and Diversified Non-Energy

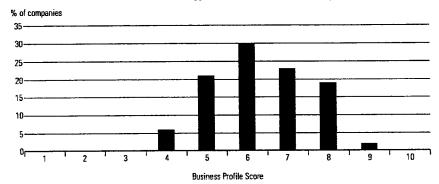
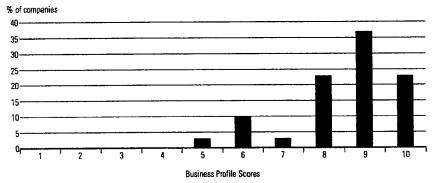


Chart 6
Energy Merchant/Developers/Trading and Marketing





See pages 16 to 19 for the company ranking list of business profile scores segmented by industry sub-sector and ranked in order of credit rating, outlook, business profile score, and relative strength.

## **Business Profile Score Methodology**

Standard & Poor's methodology of determining corporate utility business risk is anchored in the assessment of certain specific characteristics that define the sector. We assign business profile scores to each of the rated companies in the utility and power sector on a 10-point scale, where '1' represents the lowest risk and '10' the highest risk. Business pro-

file scores are assigned to all rated utility and power companies, whether they are holding companies, subsidiaries, or stand-alone corporations. For operating subsidiaries and stand-alone companies, the score is a bottom-up assessment. Scores for families of companies are a composite of the operating subsidiaries' scores. The actual credit rating of a company is analyzed, in part, by comparing the business profile score with the risk-adjusted financial guidelines.

For most companies, business profile scores are assessed using five categories; specifically, regulation, markets, operations, competitiveness, and management. The emphasis placed on each category may be influenced by the

Table 1

| Revised Financia        | al Guideli     | ines        |     |     |     |     |     |     |
|-------------------------|----------------|-------------|-----|-----|-----|-----|-----|-----|
| Funds from operation    | ıs/interest c  | overage (x) |     |     |     |     |     |     |
| <b>Business Profile</b> | ı              | AA          |     | A   | В   | BB  |     | BB  |
| 1                       | 3              | 2.5         | 2.5 | 1.5 | 1.5 | 1   |     |     |
| 2                       | 4              | 3           | 3   | 2   | 2   | 1   |     |     |
| 3                       | 4.5            | 3.5         | 3.5 | 2.5 | 2.5 | 1.5 | 1.5 | 1   |
| 4                       | 5              | 4.2         | 4.2 | 3.5 | 3.5 | 2.5 | 2.5 | 1.5 |
| 5                       | 5.5            | 4.5         | 4.5 | 3.8 | 3.8 | 2.8 | 2.8 | 1.8 |
| 6                       | 6              | 5.2         | 5.2 | 4.2 | 4.2 | 3   | 3   | 2   |
| 7                       | 8              | 6.5         | 6.5 | 4.5 | 4.5 | 3.2 | 3.2 | 2.2 |
| 8                       | 10             | 7.5         | 7.5 | 5.5 | 5.5 | 3.5 | 3.5 | 2.5 |
| 9                       |                |             | 10  | 7   | 7   | 4   | 4   | 2.8 |
| 10                      |                |             | 11  | 8   | 8   | 5   | 5   | 3   |
| Funds from operation    | ı/total debt ( | %)          |     |     |     |     |     |     |
| <b>Business Profile</b> |                | AA          |     | A   | B   | BB  |     | BB  |
| 1                       | 20             | 15          | 15  | 10  | 10  | 5   |     |     |
| 2                       | 25             | 20          | 20  | 12  | 12  | 8   |     |     |
| 3                       | 30             | 25          | 25  | 15  | 15  | 10  | 10  | 5   |
| 4                       | 35             | 28          | 28  | 20  | 20  | 12  | 12  | 8   |
| 5                       | 40             | 30          | 30  | 22  | 22  | 15  | 15  | 10  |
| 6                       | 45             | 35          | 35  | 28  | 28  | 18  | 18  | 12  |
| 7                       | 55             | 45          | 45  | 30  | 30  | 20  | 20  | 15  |
| 8                       | 70             | 55          | 55  | 40  | 40  | 25  | 25  | 15  |
| 9                       |                |             | 65  | 45  | 45  | 30  | 30  | 20  |
| 10                      |                |             | 70  | 55  | 55  | 40  | 40  | 25  |
| Total debt/total capit  |                |             |     |     |     |     |     |     |
| Business Profile        |                | AA          |     | A   | _   | BB  |     | BB  |
| 1                       | 48             | 55          | 55  | 60  | 60  | 70  |     |     |
| 2                       | 45             | 52          | 52  | 58  | 58  | 68  |     |     |
| 3                       | 42             | 50          | 50  | 55  | 55  | 65  | 65  | 70  |
| 4                       | 38             | 45          | 45  | 52  | 52  | 62  | 62  | 68  |
| 5                       | 35             | 42          | 42  | 50  | 50  | 60  | 60  | 65  |
| 6                       | 32             | 40          | 40  | 48  | 48  | 58  | 58  | 62  |
| 7                       | 30             | 38          | 38  | 45  | 45  | 55  | 55  | 60  |
| 8                       | 25             | 35          | 35  | 42  | 42  | 52  | 52  | 58  |
| 9                       |                |             | 32  | 40  | 40  | 50  | 50  | 55  |
| 10                      |                |             | 25  | 35  | 35  | 48  | 48  | 52  |

## **Feature Article**

dominant strategy of the company or other factors. For example, for a regulated transmission and distribution company, regulation may account for 30% to 40% of the business profile score because regulation can be the single-most important credit driver for this type of company. Conversely, competition, which may not exist for a transmission and distribution company, would provide a much lower proportion (e.g., 5% to 15%) of the business profile score.

For certain types of companies, such as power generators, power developers, oil and gas exploration and production companies, or nonenergy-related holdings, where these five components may not be appropriate, Standard & Poor's will use other, more appropriate methodologies. Some of these companies are assigned business profile scores that are useful only for relative ranking purposes.

As noted above, the business profile score for a parent or holding company is a composite of the business profile scores of its individual subsidiary companies. Again, Standard & Poor's does not apply rigid guidelines for deter-

mining the proportion or weighting that each subsidiary represents in the overall business profile score. Instead, it is determined based on a number of factors. Standard & Poor's will analyze each subsidiary's contribution to FFO, forecast capital expenditures, liquidity requirements, and other parameters, including the extent to which one subsidiary has higher growth. The weighting is determined case-by-case.

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PROXY GROUP OF SIX AUS UTILITY REPORTS WATER COMPANIES
CAPITALIZATION AND FINANCIAL STATISTICS (1)
2001 - 2005, INCLUSIVE

|                               |   | 5 YEAR<br>AVERAGE  | 53.01 % 0.53 <u>46.46</u> 100.00 %  | 55.77 %<br>0.50<br>43.73<br>100.00 %   | 2<br>0<br>8  | 232.43<br>3.35<br>77.47  | % 96.6                                       | 3.52 X  | 15.34 %                                | 55.78 %                           |
|-------------------------------|---|--|---|--|--|--|--|---|--|-----------------------------------|
| 2001                          | \$363.439<br>\$30.666<br>\$394.104  | 6.98 %<br>5.31   | 53.25 % 0.77 45.98 100.00 %   | 56.72 % 0.70 <b>42.58</b> 100.00 %   | 4 62 %   | 215.22<br>3.81<br>79.40  | 10.35 %                                      | 3.26 X  | 14.64 %                                | 56.72 %                           |
| 2002                          | \$396.089<br><u>\$35.125</u><br>\$431.215   | 6.49 %<br>5.73   | 53.16 %<br>0.57<br>46.27<br>100.00 %  | 56.29 %<br>0.52<br><u>43.19</u><br>100.00 %  | 9  | 221.41<br>3.63<br>74.83  | 10.58 %                                      | 3.37 X  | 14.53 %                                | 56.29 %                           |
| 2003<br>(MILLIONS OF DOLLARS) | \$457.786<br>\$32.067<br>\$489.853  | 6.24 %<br>3.98   | 52.88 %<br>0.51<br>46.61<br>100.00 %  | 56.32 %<br>0.48<br>43.20<br>100.00 %   | 6<br>8<br>8  | 232.50<br>3.28<br>87.80  | 8.97 %                                       | 3.37 X  | 14.00 %                                | 56.32 %                           |
| 2004<br>(MILLION              | \$514.211<br>\$25.357<br>\$539.568  | 6.12 %<br>4.89   | 52.56 % 0.43 47.01 100.00 %   | 54.57 %<br>0.41<br>45.02<br>100.00 %   | 5<br>7   | 231.71<br>3.20<br>74.58  | 9.80 %                                       | 3.89 X  | 17.18 %                                | 54.57 %                           |
| <u>2005</u>                   | \$551.470<br>\$30.000<br>\$581.470  | 6.14 %<br>5.33   | 53.18 %<br>0.40<br>46.42<br>100.00 %  | 54.98 %<br>0.39<br>44.63<br>100.00 %   | 9  | 261.32<br>2.85<br>70.74  | 10.10 %                                      | 3.74 X  | 16.37 %                                | 54.98 %                           |
| CAPITALIZATION STATISTICS     | AMOUNT OF CAPITAL EMPLOYED TOTAL PERMANENT CAPITAL SHORT-TERM DEBT TOTAL CAPITAL EMPLOYED | INDICATED AVERAGE CAPITAL COST RATES (2) TOTAL DEBT PREFERRED STOCK CAPITAL STRUCTURE RATIOS | BASED ON TOTAL PERMANENT CAPITAL: LONG-TERM DEBT PREFERED STOCK COMMON GCUITY TOTAL | BASED ON TOTAL CAPITAL: TOTAL DEBT, INCLUDING SHORT-TERM PREFERRED STOCK COMMON EQUITY TOTAL | EINANCIAL STATISTICS EINANCIAL RATIOS - MARKET BASED | MARKET AVERAGE BOOK RATIO DIVIDEND YIELD DIVIDEND PAYOUT RATIO | RATE OF RETURN ON AVERAGE BOOK COMMON EQUITY | FUNDS FROM OPERATIONS / INTEREST COVERAGE (3) | FUNDS FROM OPERATIONS / TOTAL DEBT (4) | <u>TOTAL DEBT / TOTAL CAPITAL</u> |

See Page 2 for notes.

Exhibit No. \_\_\_\_ Schedule PMA-3 Page 2 of 3

## Proxy Group of Six AUS Utility Reports Water Companies Capitalization and Financial Statistics 2001-2005, Inclusive

### Notes:

- (1) All capitalization and financial statistics for the group are the arithmetic average of the achieved results for each individual company in the group, and are based upon financial statements as originally reported in each year.
- (2) Computed by relating actual total debt interest or preferred stock dividends booked to average of beginning and ending total debt or preferred stock reported to be outstanding.
- (3) Funds from operations (sum of net income, depreciation, amortization, net deferred income tax and investment tax credits, less total AFUDC) plus interest charges divided by interest charges.
- (4) Funds from operations (as defined in Note 3) as a percentage of total debt.

### Selection Criteria:

The basis of selection was to include those water companies: 1) which are included in the Water Company Group of C. A. Turner Public Utility Reports (July 2006); 2) which have Value Line (Standard Edition) five-year EPS growth rate projections or Thomson FN / First Call consensus five-year EPS growth rate projections; and 3) which have more than 70% of their 2005 operating revenues derived from water operations.

The following six water companies met the above criteria:

American States Water Co. Aqua America, Inc. Artesian Resources, Inc. California Water Service Group Middlesex Water Company York Water Co.

Source of Information: Standard & Poor's Compustat Services, Inc., PC Plus / Research Insight Database
Company Annual Forms 10K

## Capital Structure Based upon Total Capital for the Proxy Group of Six AUS Utility Reports Water Companies for the Years 2001 through 2005

|                                    |                          |                          |                 |                 |                 | 5 YEAR          |
|------------------------------------|--------------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|
|                                    | <u>2005</u>              | 2004                     | <u>2003</u>     | 2002            | <u>2001</u>     | <u>AVERAGE</u>  |
| American States Water Co.          |                          |                          |                 |                 |                 |                 |
| Long-Term Debt                     | 48.03 %                  | 43.66 %                  | 46.21 %         | 49.61 %         | 52.63 %         | 48.03 %         |
| Short-Term Debt                    | 4.82                     | 8.55                     | 11.22           | 7.10            | 4.27            | 7.19            |
| Preferred Stock                    | 0.00                     | 0.00                     | 0.00            | 0.00            | 0.40            | 0.08            |
| Common Equity                      | <u>47.15</u>             | 47.79                    | 42.57           | 43.29           | 42.70           | 44.70           |
| Total Capital                      | <u>100.00</u> %          | 100.00 %                 | <u>100.00</u> % | 100.00 %        | <u>100.00</u> % | 100.00 %        |
| Aqua America, Inc.                 |                          |                          |                 |                 |                 |                 |
| Long-Term Debt                     | 48.68 %                  | 50.03 %                  | 49.35 %         | 50.36 %         | 47.67 %         | 49.22 %         |
| Short-Term Debt                    | 7.47                     | 5.10                     | 6.47            | 9.39            | 9.83            | 7.65            |
| Preferred Stock                    | 0.08                     | 0.07                     | 0.06            | 0.06            | 0.17            | 0.09            |
| Common Equity                      | 43.77                    | 44.80                    | 44.12           | 40.19           | 42.33           | 43.04           |
| Total Capital                      | 100.00 %                 | 100.00 %                 | 100.00 %        | 100.00 %        | 100.00 %        | 100.00 %        |
| Artesian Resources Corp.           |                          |                          |                 |                 |                 |                 |
| Long-Term Debt                     | 60.30 %                  | 55.85 %                  | 54.79 %         | 53.82 %         | 49.44 %         | 54.84 %         |
| Short-Term Debt                    | 2.08                     | 7.38                     | 9.39            | 3.24            | 16.68           | 7.75            |
| Preferred Stock                    | 0.00                     | 0.00                     | 0.07            | 0.17            | 0.56            | 0.16            |
| Common Equity                      | <u>37.62</u>             | <u>36.77</u>             | <u>35.75</u>    | 42.77           | 33.32           | 37.25           |
| Total Capital                      | <u>100.00</u> %          | <u>100.00</u> %          | 100.00 %        | 100.00 %        | 100.00 %        | <u>100.00</u> % |
| California Water Service Group     |                          |                          |                 |                 |                 |                 |
| Long-Term Debt                     | 48.07 %                  | 48.66 %                  | 51.77 %         | 51.25 %         | 48.36 %         | 49.62 %         |
| Short-Term Debt                    | 0.00                     | 0.00                     | 1.22            | 7.42            | 5.11            | 2.75            |
| Preferred Stock                    | 0.61                     | 0.61                     | 0.66            | 0.71            | 0.81            | 0.68            |
| Common Equity                      | <u>51.32</u>             | <u>50.73</u>             | <u>46.35</u>    | <u>40.62</u>    | <u>45.72</u>    | <u>46.95</u>    |
| Total Capital                      | <u>100.00</u> %          | <u>100.00</u> %          | <u>100.00</u> % | <u>100.00</u> % | <u>100.00</u> % | <u>100.00</u> % |
| Middlesex Water Company            |                          |                          |                 |                 |                 |                 |
| Long-Term Debt                     | 54.74 %                  | 51.36 %                  | 50.57 %         | 47.29 %         | 49.70 %         | 50.73 %         |
| Short-Term Debt                    | 1.68                     | 4.86                     | 6.42            | 9.47            | 7.43            | 5.97            |
| Preferred Stock                    | 1.67                     | 1.79                     | 2.09            | 2.18            | 2.28            | 2.00            |
| Common Equity                      | <u>41.91</u>             | <u>41.99</u>             | <u>40.92</u>    | <u>41.06</u>    | <u>40.59</u>    | <u>41.29</u>    |
| Total Capital                      | <u>100.00</u> %          | <u>100.00</u> %          | <u>100.00</u> % | <u>100.00</u> % | <u>100.00</u> % | <u>100.00</u> % |
| York Water Company                 |                          |                          |                 |                 |                 |                 |
| Long-Term Debt                     | 47.34 %                  | 51.94 %                  | 41.40 %         | 45.00 %         | 46.35 %         | 46.41 %         |
| Short-Term Debt                    | 6.65                     | 0.00                     | 9.07            | 3.77            | 2.83            | 4.46            |
| Preferred Stock                    | 0.00                     | 0.00                     | 0.00            | 0.00            | 0.00            | 0.00            |
| Common Equity                      | <u>46.01</u>             | <u>48.06</u>             | <u>49.53</u>    | 51.23           | 50.82           | 49.13           |
| Total Capital                      | <u>100.00</u> %          | <u>100.00</u> %          | 100.00 %        | 100.00 %        | 100.00 %        | 100.00 %        |
| D (0)                              |                          |                          |                 |                 |                 |                 |
| Proxy Group of Six                 |                          |                          |                 |                 |                 |                 |
| AUS Water Companies                | E4 40 04                 | F0.55 **                 | 40.00.00        | 48 85 51        |                 |                 |
| Long-Term Debt                     | 51.19 %                  | 50.25 %                  | 49.02 %         | 49.56 %         | 49.02 %         | 49.81 %         |
| Short-Term Debt<br>Preferred Stock | 3.79<br>0.39             | 4.32                     | 7.30            | 6.73            | 7.70            | 5.97            |
| Common Equity                      |                          | 0.41<br>45.03            | 0.48            | 0.52            | 0.70            | 0.50            |
| Total Capital                      | <u>44.63</u><br>100.00 % | <u>45.02</u><br>100.00 % | 43.21           | 43.19           | 42.58           | 43.73           |
| Total Capital                      | 100.00 76                | 100.00 %                 | <u>100.01</u> % | <u>100.00</u> % | <u>100.00</u> % | <u>100.00</u> % |

Source of Information: Standard & Poor's Compustat Services, Inc., PC Plus / Research Insight Data Base Company Annual Forms 10K (Sinking Fund Requirements)

PROXY GROUP OF FOUR VALUE LINE (STANDARD EDITION) WATER COMPANIES
CAPITALIZATION AND FINANCIAL STATISTICS (1)
2001 - 2005 INCLUSIVE

|                               |   | S VEAR   | 51.87 %<br>0.34<br>47.79<br>100.00 %  | 53.95 %<br>0.34<br>45.71<br>100.00 %   |                       | 4.33 %<br>228.40<br>2.87<br>67.08   | % 02.6                                       | 3.93 X  | 18.09 %                                | 53.95 %                  |
|-------------------------------|---|--|---|--|-----------------------|---|--|---|--|--------------------------|
| 2001                          | \$496.630<br>\$37.917<br>\$534.547  | 7.09 %<br>4.34   | 53.70 %<br>0.47<br>45.83<br>100.00 %  | 55.96 % 0.45 43.59 100.00 %  |                       | 4.81 % 227.57 3.11 66.93  | 10.83 %                                      | 3.61 X  | 16.85 %                                | 55.96 %                  |
| <u>2007</u>                   | \$541.882<br>\$46.623<br>\$588.505  | 6.39 %<br>3.73   | 55.35 % 0.39 44.26  | 58.05 %<br>0.38<br>41.57<br>100.00 %   |                       | 4.96 % 223.08 3.10 61.40  | 10.91 %                                      | 3.67 X  | 15.81 %                                | 58.05 %                  |
| 2003<br>(MILLIONS OF DOLLARS) | \$628.903<br>\$39.728<br>\$668.632  | 6.36 %<br>2.63   | 51.43 % 0.40 48.17 100.00 %   | 53.69 %<br>0.39<br>45.92<br>100.00 %   |                       | 4.12 %<br>220.49<br>2.91<br>74.09   | 9.19 %                                       | 3.81 X  | 17.79 %                                | 63.69 %                  |
| 2004 (MILLION                 | \$719.252<br>\$32.52 <u>9</u><br>\$751.781  | 6.28 %<br>3.38   | 49.42 %<br>0.24<br><u>\$0.34</u><br>100.00 %  | 51.13 %<br>0.25<br>48.62<br>100.00 %   |                       | 3.88 %<br>222.69<br>2.79<br>71.81   | 8.38 %                                       | 4.40 X  | 20.38 %                                | 51.13 %                  |
| 2005                          | \$773.683<br>\$41.376<br>\$815.059  | 6.39 %<br>4.27   | 49.45 % 0.22 50.33 100.00 %   | 50.93 %<br>0.22<br>48.85<br>100.00 %   |                       | 3.88 %<br>248.19<br>2.42<br>61.18   | 9.19 %                                       | 4.16 X  | 19.61 %                                | 60.93 %                  |
| CAPITALIZATION STATISTICS     | AMOUNT OF CAPITAL EMPLOYED TOTAL PERMANENT CAPITAL SHORT-TERM DEBT TOTAL CAPITAL EMPLOYED | INDICATED AVERAGE CAPITAL COST RATES. (2) TOTAL DEBT PREFERRED STOCK | CAPITAL STRUCTURE RATIOS BASED ON TOTAL PERMANENT CAPITAL: LONG-TERM DEBT COMMON EQUITY TOTAL | BASED ON TOTAL CAPITAL: TOTAL DEBT. INCLUDING SHORT-TERM PREFERRED STOCK COMMON EQUITY TOTAL | EINANCIAL, STATISTICS | EINANCIAL RATIOS - MARKET BASED EARNINGS / PRICE RATIO MARKET / AVERAGE BOOK RATIO DIVIDEND YIELD DIVIDEND PAYOUT RATIO | RATE OF RETURN ON AVERAGE BOOK COMMON EQUITY | EUNDS FROM OPERATIONS / INTEREST COVERAGE (3) | EUNDS FROM OPERATIONS / TOTAL DEBT (4) | TOTAL DEBI/TOTAL CAPITAL |

ee Page 2 for notes.

Exhibit No. \_\_\_\_ Schedule PMA-4 Page 2 of 3

## Proxy Group of Four Value Line (Standard Edition) Water Companies Capitalization and Financial Statistics 2001-2005, Inclusive

### Notes:

- (1) All capitalization and financial statistics for the group are the arithmetic average of the achieved results for each individual company in the group, and are based upon financial statements as originally reported in each year.
- (2) Computed by relating actual total debt interest or preferred stock dividends booked to average of beginning and ending total debt or preferred stock reported to be outstanding.
- (3) Funds from operations (sum of net income, depreciation, amortization, net deferred income tax and investment tax credits, less total AFUDC) plus interest charges divided by interest charges.
- (4) Funds from operations (as defined in Note 3) as a percentage of total debt.

## Selection Criteria:

The basis of selection was to include those water companies: 1) which are included in the Value Line (Standard Edition).

The following four water companies met the above criteria:

American States Water Co. Aqua America, Inc. California Water Service Group Southwest Water Company

Source of Information: Standard & Poor's Compustat Services, Inc., PC Plus / Research Insight Database
Company Annual Forms 10K

## Capital Structure Based upon Total Capital for the Proxy Group of Four Value Line (Standard Edition ) Water Companies for the Years 2001 through 2005

|                                | <u>2005</u>     | 2004            | 2003            | 2002            | <u>2001</u>     | 5 YEAR<br><u>AVERAGE</u> |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------------|
| American States Water Co.      |                 |                 |                 |                 |                 |                          |
| Long-Term Debt                 | 48,03 %         | 43.66 %         | 46.21 %         | 49.61 %         | 52.63 %         | 48.03 %                  |
| Short-Term Debt                | 4.82            | 8.55            | 11.22           | 7.10            | 4.27            | 7.19                     |
| Preferred Stock                | 0.00            | 0.00            | 0.00            | 0.00            | 0.40            | 0.08                     |
| Common Equity                  | 47.15           | 47.79           | 42.57           | 43.29           | 42.70           | 44.70                    |
| Total Capital                  | 100.00 %        | 100.00 %        | 100.00 %        | 100.00 %        | 100.00 %        | 100.00 %                 |
| Aqua America, Inc.             |                 |                 |                 |                 |                 |                          |
| Long-Term Debt                 | 48.68 %         | 50.03 %         | 49.35 %         | 50.36 %         | 47.67 %         | 49.22 %                  |
| Short-Term Debt                | 7.47            | 5.10            | 6.47            | 9.39            | 9.83            | 7.65                     |
| Preferred Stock                | 0.08            | 0.07            | 0.06            | 0.06            | 0.17            | 0.09                     |
| Common Equity                  | <u>43.77</u>    | <u>44.80</u>    | <u>44.12</u>    | <u>40.19</u>    | 42.33           | <u>43.04</u>             |
| Total Capital                  | 100.00 %        | <u>100.00</u> % | 100.00 %        | <u>100.00</u> % | 100.00 %        | 100.00 %                 |
| California Water Service Group |                 |                 |                 |                 |                 |                          |
| Long-Term Debt                 | 48.07 %         | 48.66 %         | 51.77 %         | 51.25 %         | 48.36 %         | 49.62 %                  |
| Short-Term Debt                | 0.00            | 0.00            | 1.22            | 7.42            | 5.11            | 2.75                     |
| Preferred Stock                | 0.61            | 0.61            | 0.66            | 0.71            | 0.81            | 0.68                     |
| Common Equity                  | <u>51.32</u>    | <u>50.73</u>    | <u>46.35</u>    | <u>40.62</u>    | <u>45.72</u>    | <u>46.95</u>             |
| Total Capital                  | <u>100.00</u> %          |
| Southwest Water Company        |                 |                 |                 |                 |                 |                          |
| Long-Term Debt                 | 46.67 %         | 48.53 %         | 48.50 %         | 57.07 %         | 55.97 %         | 51.35 %                  |
| Short-Term Debt                | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00                     |
| Preferred Stock                | 0.17            | 0.28            | 0.85            | 0.74            | 0.41            | 0.49                     |
| Common Equity                  | <u>53.16</u>    | <u>51.19</u>    | <u>50.65</u>    | <u>42.19</u>    | <u>43.62</u>    | <u>48.16</u>             |
| Total Capital                  | <u>100.00</u> % | <u>100.00</u> % | 100.00 %        | <u>100.00</u> % | <u>100.00</u> % | <u>100.00</u> %          |
| Proxy Group of Four Value Line |                 |                 |                 |                 |                 |                          |
| (Std. Ed.) Water Companies     |                 |                 |                 |                 |                 |                          |
| Long-Term Debt                 | 47.86 %         | 47.72 %         | 48.96 %         | 52.07 %         | 51.16 %         | 49.55 %                  |
| Short-Term Debt                | 3.07            | 3.41            | 4.73            | 5.98            | 4.80            | 4.40                     |
| Preferred Stock                | 0.22            | 0.25            | 0.39            | 0.38            | 0.45            | 0.34                     |
| Common Equity                  | <u>48.85</u>    | <u>48.62</u>    | <u>45.92</u>    | <u>41.57</u>    | <u>43.59</u>    | <u>45.71</u>             |
| Total Capital                  | 100.00 %        | 100.00 %        | 100.00 %        | 100.00 %        | <u>100.00</u> % | 100.00 %                 |

Source of Information: Standard & Poor's Compustat Services, Inc., PC Plus / Research Insight Data Base Company Annual Forms 10K (Sinking Fund Requirements)

# United Utility Companies, Inc. Hypothetical Example of the Inadequacy of A DCF Return Rate Related to Book Value When Market Value is Greater / Less than Book Value

<u>1</u>

2

<u>3</u>

| Line No. | _                              | Mar | ket Value | N  | ook Value with<br>Market to Book<br>Ratio of 180% | _  | Book Value with<br>Market to Book<br>Ratio of 80% |
|----------|--------------------------------|-----|-----------|----|---|----|---|
| 1.       | Per Share                      | \$  | 24.00     | \$ | 13.33   | \$ | 30.00   |
| 2.       | DCF Cost Rate (1)              |     | 10.00%    |    | 10.00%  |    | 10.00%  |
| 3.       | Return in Dollars              | \$  | 2.400     | \$ | 1.333   | \$ | 3.000   |
| 4.       | Dividends (2)                  | \$  | 0.840     | \$ | 0.840   | \$ | 0.840   |
| 5.       | Growth in Dollars              | \$  | 1.560     | \$ | 0.493   | \$ | 2.160   |
| 6.       | Return on Market Value         |     | 10.00%    |    | 5.55% (3)   |    | 12.50% (4)  |
| 7.       | Rate of Growth on Market Value |     | 6.50% (5) |    | 2.05% (6)   |    | 9.00% (7)   |

Notes: (1) Comprised of 3.5% dividend yield and 6.5% growth.

- (2) \$24.00 \* 3.5% yield = \$0.840.
- (3) \$1.333 / \$24.00 market value = 5.55%.
- (4) \$3.000 / \$24.00 market value = 12.50%.
- (5) Expected rate of growth per market based DCF model.
- (6) Actual rate of growth when DCF cost rate is applied to book value (\$1.333 possible earnings \$0.840 dividends = \$0.493 for growth / \$24.00 market value = 2.05%).
- (7) Actual rate of growth when DCF cost rate is applied to book value (\$3.000 possible earnings \$0.840 dividends = \$2.160 for growth / \$24.00 market value = 9.00%).

## <u>United Utility Companies, Inc.</u> Indicated Common Equity Cost Rate Through Use of the Single Stage Discounted Cash Flow Model for the Proxy Group of Six AUS Utility Reports Water Companies and the Proxy Group of Four Value Line (Standard Edition) Water Companies

Based upon Historical and Projected Growth in DPS, EPS, and BR+SV

| 1   2   3   4   5  |                                 |                |                    |              |          |                   |
|--|---------------------------------|----------------|--------------------|--------------|----------|-------------------|
| Average   Crowth   Dividend   Corponent   Dividend   Carowth   Equity Cost   Equity    |                                 | <u>1</u>       | <u>2</u> .         | <u>3</u> .   | 4.       | 5.                |
| Average   Crowth   Dividend   Corponent   Dividend   Corwith   Equity Cost   Equity    |                                 |                |                    |              |          |                   |
| Dividend   Component   Dividend   Cirowth   Equity Cost   Rate (6)   |                                 |                |                    |              |          |                   |
| Yield (1)   (2)   Yield (3)   Rate (4)   Rate (5)  |                                 |                |                    |              |          |                   |
| Proxy Group of Six AUS Utility Reports Water Companies American States Water Co.  2.5 % 0.1 % 2.5 % 4.4 % 7.0 % Again American States Water Co.  3.8 0.1 0.3 9 6.9 10.8  Altasian Resources Corp.  3.8 0.1 0.3 9 6.9 10.8  California Water Services Group 3.1 0.1 3.2 3.8 10.0  Middlesex Water Company 3.7 0.0 3.7 2.5 6.2  York Water Company Average 3.0 % 0.1 % 3.0 % 5.4 % 10.2 % (6)  Proxy Group of Four Value Line (Standard Edition) Water Companies  Average Average  2.5 % 0.1 % 2.6 % 4.4 % 7.0 %  American States Water Co.  Aqua American, Inc.  1.9 0.1 2.2 % 6.3 9.1  7.0 Calfornia Water Services Group 3.1 0.1 3.2 3.8 7.0  Suffiwest Water Company  2.4 0.1 2.5 9.4 11.9  Average  Average  Based upon Protected Growth in EPS  1 2 3 4 5   Based upon Protected Growth in EPS  1 2 3 4 5   Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  1 2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Growth in EPS  2 3 4 5  Based upon Protected Grow |                                 |                |                    |              |          |                   |
| Reports Water Companies   American States Water Co.   2.5 %   0.1 %   2.6 %   4.4 %   7.0 %   Artesian Resources Corp.   3.8   0.1   3.9   5.9   10.8   7.0   7.   |                                 | Yield (1)      | (2)                | Yield (3)    | Rate (4) | Rate (5)          |
| American States Water Co.  |                                 |                |                    |              |          |                   |
| Aqua America, Inc.   1.9   |                                 | 25 %           | 01%                | 26 %         | 44 %     | 70 %              |
| Ariesian Resources Corp.  California Water Services Group  Alore 3.1  Alore 3.2  Alore 3.1  Alore 3.2  Alore 3.3  Alore 3.2  Alore 3.3  Average  Average  Average  Dividend  Average  Di |                                 |                |                    |              |          |                   |
| California Water Services Group   3.1  |                                 |                |                    |              |          |                   |
| Middlesex Water Company   3.7   0.0   3.7   2.5   6.2  |                                 |                |                    |              |          |                   |
| York Water Company   |                                 |                |                    |              |          |                   |
| Average  |                                 |                |                    |              |          |                   |
| Proxy Group of Four Value Line (Standard Edition) Water Companies  | • •                             |                |                    |              |          |                   |
| Standard Edition) Water Companies   Standard Edition   Water Companies   |                                 |                |                    |              |          | 70.2              |
| Aqua America, Inc.   1.9   | (Standard Edition) Water        |                |                    |              |          |                   |
| Aqua America, Inc.   1.9   |                                 | 2.5 %          | 0.1 %              | 26 %         | 44 %     | 70 %              |
| Southwest Water Company   2.4   0.1   2.5   9.4   11.9   |                                 |                |                    |              |          |                   |
| Southwest Water Company  |                                 |                |                    |              |          |                   |
| Average   2.5 %   0.1 %   2.6 %   6.6 %   11.3 % (6)   |                                 |                |                    |              |          |                   |
| Proxy Group of Six AUS Utility Reports Water Company   2.7   0.1   2.8   7.8   10.6    |                                 |                |                    |              |          |                   |
| 1   2   3   4   5   Indicated Common   | Average                         | <u>2.5</u> %   | %                  | 2.5 %        | 6.5 %    | <u>11.3</u> % (6) |
| Average   Dividend   Orowth   Component   Orowth   O   |                                 | Based upon Pro | jected Growth in E | <u>PS</u>    |          |                   |
| Average   Dividend   Component   Dividend   Growth   Equity Cost   Equity Cost   Yield (1)   (2)   Yield (3)   Rate (4)   Rate (5)   |                                 | 1              | 2                  | <u>3</u>     | 4        | <u>5</u>          |
| Average   Dividend   Component   Dividend   Growth   Equity Cost   Equity Cost   Yield (1)   (2)   Yield (3)   Rate (4)   Rate (5)   |                                 |                | Dividend           |              |          | indicated         |
| Dividend   Yield (1)   Component   Yield (3)   Crowth   Rate (4)   Rate (5)  |                                 | Average        |                    | Adjusted     |          |                   |
| Froxy Group of Six AUS Utility         Rate (4)         Rate (5)           Proxy Group of Six AUS Utility         Reports Water Companies           American States Water Co.         2.5 %         0.1 %         2.6 %         6.3 %         8.9 %           Aqua America, Inc.         1.9 0.1 2.0 10.3 12.3         10.3 12.3         12.5 6         10.5 5         10.5 5           California Water Services Group         3.1 0.1 3.2 5.8 9.0         9.0 Middlessex Water Company         3.7 0.1 3.8 3.5 7.3         3.5 7.3         10.6 2.8 7.8 10.6           Average         3.0 % 0.1 % 3.1 % 7.5 % 9.5 % (6)         9.5 % (6)           Proxy Group of Four Value Line (Standard Edition) Water Companies         8.9 %           American States Water Co.         2.5 % 0.1 % 2.6 % 6.3 % 8.9 %           Aqua America, Inc.         1.9 0.1 2.0 10.3 12.3           California Water Services Group         3.1 0.1 3.2 5.8 9.0           Southwest Water Company         2.4 0.1 2.5 11.7 14.2           Average         2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)           Conclusion           Proxy Group of Six AUS Utility           Reports Water Companies  |                                 |                |                    |              | Growth   |                   |
| Proxy Group of Six AUS Utility Reports Water Companies  American States Water Co.  |                                 |                |                    |              |          |                   |
| Reports Water Companies   Reports Water Co.   2.5 %   0.1 %   2.6 %   6.3 %   8.9 %   Aqua America, Inc.   1.9   0.1   2.0   10.3   12.3   12.3   12.5   11.5   15.5   12.5   1   |                                 |                |                    |              |          |                   |
| Aqua America, Inc. 19 0.1 2.0 10.3 12.3 Artesian Resources Corp. 3.8 0.2 4.0 11.5 15.5 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Middlesex Water Company 3.7 0.1 3.8 3.5 7.3 York Water Company 2.7 0.1 2.8 7.8 10.6 Average 3.0 % 0.1 % 3.1 % 7.5 % 9.5 % (6)  Proxy Group of Four Value Line (Standard Edition) Water Companies  American States Water Co. 2.5 % 0.1 % 2.6 % 6.3 % 8.9 % Aqua America, Inc. 1.9 0.1 2.0 10.3 12.3 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Southwest Water Company 2.4 0.1 2.5 11.7 14.2 Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)  Conclusion  Proxy Group of Six AUS Utility Reports Water Companies  |                                 |                |                    |              |          |                   |
| Aqua America, Inc. 19 0.1 2.0 10.3 12.3 Artesian Resources Corp. 3.8 0.2 4.0 11.5 15.5 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Middlesex Water Company 3.7 0.1 3.8 3.5 7.3 York Water Company 2.7 0.1 2.8 7.8 10.6 Average 3.0 % 0.1 % 3.1 % 7.5 % 9.5 % (6)  Proxy Group of Four Value Line (Standard Edition) Water Companies  American States Water Co. 2.5 % 0.1 % 2.6 % 6.3 % 8.9 % Aqua America, Inc. 1.9 0.1 2.0 10.3 12.3 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Southwest Water Company 2.4 0.1 2.5 11.7 14.2 Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)  Conclusion  Proxy Group of Six AUS Utility Reports Water Companies  | American States Water Co.       | 2.5 %          | 0.1 %              | 2.6 %        | 6.3 %    | 8.9 %             |
| Arlesian Resources Corp. 3.8 0.2 4.0 11.5 15.5 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Middlessex Water Company 2.7 0.1 2.8 7.8 10.6 Average 3.0 % 0.1 % 3.1 % 7.5 % 9.5 % (6)  Proxy Group of Four Value Line (Standard Edition) Water Companies  American States Water Co. 2.5 % 0.1 % 2.6 % 6.3 % 8.9 % Aqua America, Inc. 1.9 0.1 2.0 10.3 12.3 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Southwest Water Company 2.4 0.1 2.5 11.7 14.2 Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)  Conclusion  Proxy Group of Six AUS Utility Reports Water Companies  | Aqua America, Inc.              |                | 0.1                | 2.0          | 10.3     | 12.3              |
| Middlesex Water Company   3.7   0.1   3.8   3.5   7.3   10.6     Average   3.0 %   0.1 %   3.1 %   7.5 %   9.5 % (6)     Proxy Group of Four Value Line (Standard Edition) Water Companies     American States Water Co.   2.5 %   0.1 %   2.6 %   6.3 %   8.9 %     Aqua America, Inc.   1.9   0.1   2.0   10.3   12.3     California Water Services Group   3.1   0.1   3.2   5.8   9.0     Southwest Water Company   2.4   0.1   2.5   11.7   14.2     Average   2.5 %   0.1 %   2.6 %   8.5 %   9.0 % (6) (7)     Conclusion     Proxy Group of Six AUS Utilify Reports Water Companies   9.9 %  |                                 | 3.8            | 0.2                | 4.0          | 11.5     | 15.5              |
| York Water Company   2.7   | California Water Services Group | 3.1            | 0.1                | 3.2          | 5.8      | 9.0               |
| York Water Company   | Middlesex Water Company         | 3.7            | 0.1                | 3.8          | 3,5      | 7.3               |
| Average 3.0 % 0.1 % 3.1 % 7.5 % 9.5 % (6)  Proxy Group of Four Value Line (Standard Edition) Water Companies  American States Water Co. 2.5 % 0.1 % 2.6 % 6.3 % 8.9 % Aqua America, Inc. 1.9 0.1 2.0 10.3 12.3 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Southwest Water Company 2.4 0.1 2.5 11.7 14.2 Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)  Conclusion  Proxy Group of Six AUS Utility Reports Water Companies   |                                 | 2.7            | 0.1                | 2.8          | 7.8      |                   |
| Proxy Group of Four Value Line (Standard Edition) Water Companies         2.5 % 0.1 % 2.6 % 6.3 % 8.9 %           American States Water Co. Aqua America, Inc. 1.9 0.1 2.0 10.3 12.3 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Southwest Water Company 2.4 0.1 2.5 11.7 14.2 Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)           Conclusion           Proxy Group of Six AUS Utility Reports Water Companies         9.9 %   | • •                             |                |                    |              |          |                   |
| (Standard Edition) Water Companies  American States Water Co. 2.5 % 0.1 % 2.6 % 6.3 % 8.9 % Aqua America, Inc. 1.9 0.1 2.0 10.3 12.3 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Southwest Water Company 2.4 0.1 2.5 11.7 14.2 Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)  Conclusion  Proxy Group of Six AUS Utility Reports Water Companies  Proxy Group of Four Value Line (Standard Edition) Water  | Average                         |                |                    | <u>3.1</u> % |          | <u> </u>          |
| Aqua America, Inc. 1.9 0.1 2.0 10.3 12.3 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Southwest Water Company 2.4 0.1 2.5 11.7 14.2 Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)  Conclusion  Proxy Group of Six AUS Utilify Reports Water Companies 99.9 %  Proxy Group of Four Value Line (Standard Edition) Water   | (Standard Edition) Water        |                |                    |              |          |                   |
| Aqua America, Inc. 1.9 0.1 2.0 10.3 12.3 California Water Services Group 3.1 0.1 3.2 5.8 9.0 Southwest Water Company 2.4 0.1 2.5 11.7 14.2 Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)  Conclusion  Proxy Group of Six AUS Utilify Reports Water Companies 99.9 %  Proxy Group of Four Value Line (Standard Edition) Water   | American States Water Co.       | 2.5 %          | 0.1 %              | 2.6 %        | 6.3 %    | 8.9 %             |
| California Water Services Group   3.1   0.1   3.2   5.8   9.0  |                                 |                |                    |              |          |                   |
| Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)  Conclusion  Proxy Group of Six AUS Utility Reports Water Companies 9.9 %  Proxy Group of Four Value Line (Standard Edition) Water   | California Water Services Group | 3.1            | 0.1                | 3.2          | 5.8      | 9.0               |
| Average 2.5 % 0.1 % 2.6 % 8.5 % 9.0 % (6) (7)  Conclusion  Proxy Group of Six AUS Utility Reports Water Companies 9.9 %  Proxy Group of Four Value Line (Standard Edition) Water   | Southwest Water Company         | 2.4            | 0.1                | 2.5          | 11.7     | 14.2              |
| Conclusion  Proxy Group of Six AUS Utility Reports Water Companies  9.9 %  Proxy Group of Four Value Line (Standard Edition) Water   | A                               | 25.%           | 0.4.0/             |              |          |                   |
| Proxy Group of Six AUS Utility Reports Water Companies 9.9 %  Proxy Group of Four Value Line (Standard Edition) Water  | Average                         |                | U.1 7e             | <u> </u>     | 8.5 %    | 9.0 % (6) (7)     |
| Reports Water Companies 9.9 %  Proxy Group of Four Value Line (Standard Edition) Water   | Conclusion                      |                |                    |              |          |                   |
| Reports Water Companies 9.9 %  Proxy Group of Four Value Line (Standard Edition) Water   | Proxy Group of Six AUS Utility  |                |                    |              |          |                   |
| (Standard Edition) Water   |                                 |                |                    |              |          | <u>9.9</u> %      |
| (Standard Edition) Water   |                                 |                |                    |              |          |                   |
|  |                                 |                |                    |              |          |                   |
| Companies 10.2 %   |                                 |                |                    |              |          | 40.0 **           |
|  | Companies                       |                |                    |              |          | 10.2 %            |

### Notes

- (1) From Schedule PMA-7 of this Exhibit.
- (2) This reflects a growth rate component equal to one-half the conclusion of growth rate (from page 1 of Schedule PMA-9 of this Exhibit ) x Column 1 to reflect the periodic payment of dividends (Gordon Model) as opposed to the confinuous payment. Thus, for American States Water Co., 2.5% x (1/2 x 4.4%) = 0.1%.
- (3) Column 1 + Column 2.
- (4) From page 1 Schedule PMA-9 of this Exhibit.
- (5) Column 3 + Column 4.
- (6) Includes only those indicated common equity cost rates which are greater than 8.8%, i.e., 200 basis points above the prospective yield on A rated Moody's public utility bonds of 6.8% (from page 1 of Schedule PMA-10 of this Exhibit).
- (7) Excludes Southwest Water Company's DCF results of 14.2% and Aqua America, Inc.'s results of 12.3% because in Ms. Ahern's opinion it is unlikely that a water company would be authorized a return rate on common equity of 12.0% or greater in the immediate future.

## United Utility Companies, Inc; Derivation of Dividend Yield for Use in the **Discounted Cash Flow Model**

|  |                         | Dividend Yield                        | l                                |
|--|-------------------------|---------------------------------------|----------------------------------|
|  | Spot<br>(7/06/2006) (1) | Average<br>of<br>Last 3<br>Months (2) | Average<br>Dividend<br>Yield (3) |
| Proxy Group of Six AUS Utility Reports<br>Water Companies            |                         |                                       |                                  |
| American States Water Co.  | 2.5 %                   | 2.4 %                                 | 2.5 %                            |
| Aqua America, Inc.   | 1.9                     | 1.8                                   | 1.9                              |
| Artesian Resources Corp.   | 4.6                     | 3.0                                   | 3.8                              |
| California Water Services Group                                      | 3.2                     | 3.0                                   | 3.1                              |
| Middlesex Water Company  | 3.6                     | 3.7                                   | 3.7                              |
| York Water Company   | 2.8                     | 2.6                                   | 2.7                              |
| Average  | 3.1 %                   | 2.8 %                                 | 3.0 %                            |
| Proxy Group of Four Value Line<br>(Standard Edition) Water Companies |                         |                                       |                                  |
| American States Water Co.  | 2.5 %                   | 2.4 %                                 | 2.5 %                            |
| Aqua America, Inc.   | 1.9                     | 1.8                                   | 1.9                              |
| California Water Services Group                                      | 3.2                     | 3.0                                   | 3.1                              |
| Southwest Water Company  | 3.2                     | 1.6                                   | 2.4                              |
| Average  | <u>2.7</u> %            | <u>2.2</u> %                          | 2.5 %                            |

- Notes: (1) The spot dividend yield is the current annualized dividend per share divided by the spot market price on 7/06/06.
  - (2) The average 3-month dividend yield was computed by relating the indicated annualized dividend rate and market price on the last trading day of each of the three months ended June 30, 2006.
  - (3) Equal weight has been given to the 3-month average and spot dividend yield. This provides recognition of current conditions, but does not place undue emphasis thereon.

Source of Information: Standard & Poor's Compustat Services, Inc., PC Plus

Research Insight Database

finance.yahoo.com

## United Utility Companies, Inc.

## Current Institutional Holdings (1) and Individual Holdings (2) for the Proxy Group of Six AUS Utility Reports Water Companies, the Proxy Group of Four Value Line (Standard Edition) Water Companies

|  | <u>1</u>                   | <u>2</u>                   |
|--|----------------------------|----------------------------|
|  | July 2006<br>Percentage of | July 2006<br>Percentage of |
|  | Institutional              | Individual                 |
|  | Holdings (1)               | Holdings (2)               |
| Proxy Group of Six                             |                            |                            |
| AUS Utility Reports Water Companies            |                            |                            |
| American States Water Co.                      | 44.3 %                     | 55.7 %                     |
| Aqua America                                   | 31.8                       | 68.2                       |
| Artesian Resources Corp.                       | 8.7                        | NA                         |
| California Water Service Group                 | 31.9                       | 68.1                       |
| Middlesex Water Company                        | 15.9                       | 84.1                       |
| York Water Company                             | <u> 7.4</u>                | 92.6                       |
| Average  | 23.3 %                     | <u>76.7</u> %              |
| Proxy Group of Four Value Line Water Companies |                            |                            |
| American States Water Co.                      | 44.3 %                     | 55.7 %                     |
| Aqua America                                   | 31.8                       | 68.2                       |
| California Water Service Group                 | 25.9                       | 68.1                       |
| Southwest Water Company                        | 42.0                       | 58.0                       |
| Average  | <u>36.0</u> %              | <u>64.0</u> %              |

Notes: (1) (1 - column 1).

Source of Information: today.reuters.com, updated July 1, 2006

|  |   |                            |   |  |                                | United Utility Companies, Inc.<br>Historical and Projected Growth | panies, inc.    |  |   |                             |                             |                       |                             |  |
|--|---|----------------------------|---|--|--------------------------------|---|-----------------|--|---|-----------------------------|-----------------------------|-----------------------|-----------------------------|--|
|  | н   | <b>0</b> 1                 | ଜା  | 41   | ĸ                              | 601   |                 | Z  | <b>co</b> )                                   | он                          | 01                          | Ħ                     | 21                          | Average of                                     |
|  | Value Line F                                  | Value Line Historical Five | Five Year<br>Historical BR                  | Value Line Projected 2003<br>05 to 2009-'11 Growth | Jected 2003-<br>11 Growth      | ThomsonFN / First Cal<br>Mean Consensus<br>Projected Five Year    | _               | Average<br>Projected Five<br>Year Growth | Projected Five<br>Year BR + SV                | Ran                         | Range of Growth Rates       | ates<br>Material      | Average of all              | Midpoint and<br>Average of all<br>Growth Rates |
| December of Sty Alice Hills  | DPS   | DPS EPS                    | 12 40                                       | DPS  | EPS                            | EPS   | No of<br>Est.   | ישות בו שופין                            |   |                             |                             |                       | 200                         |  |
| Reports Water Companies  |   |                            |   |  |                                |   |                 |  |   |                             |                             |                       |                             |  |
| American States Water Co.<br>Aqua America, Inc.  | 1.0<br>8.5<br>%                               | (1.0) %<br>8.5             | 4.4<br>7.6<br>%                             |  | 8.0 %<br>11.0 %                | 2.4<br>8.6<br>%   | 22              | 8.3 %<br>10.3                            | ×   | 1.0 % (8)<br>6.5            | 8.0 % (8<br>11.0            |                       | 4.2 % (8)<br>8.5            | 8.7.8<br>%                                     |
| Artestan Resources Corp.<br>California Water Services Group  | 3.7 (6)<br>1.0                                | 4.1 (5)<br>(4.0)           | 5.5<br>3.7                                  |  | Ā ĕ                            | 11.5<br>7.0   | হত              | 11.5<br>5.8                              |   | 3.7<br>1.0 (8)              | 11.5<br>7.0 (8)             |                       | 6.2<br>3.6 (8)              | 9.6<br>8.8                                     |
| Middlesex Water Company<br>York Water Company  | (9.5)   | 1.0<br>6.9 (5)             | 4 5 4                                       | <b>≨ ≨</b>   | <b>§</b> §                     | 3.5   | ا<br><u>5</u> 5 | 7.8                                      | <b>≸</b> ≸                                    | 6, 4,                       | 3.5 (8)                     | 1                     | 2.6 (8)                     | 6.3  |
| Average  | 2.8 %   | 5.1 % (8)                  | 4.7 %                                       |  | 7.8 %                          | 7.3 %   | •               | 7.5 %                                    | 5.8 %   | 2.9 %                       | 8.1 %                       | -                     | 5.3 %                       | 5.4 %  |
| Proxy Group of Four Value Line<br>(Standard Edition) Water Companies.                                |   |                            |   |  |                                |   |                 |  |   |                             |                             |                       |                             |  |
| American States Water Co. Aqua America, Inc. California Water Services Group Southwest Water Company | 0.1<br>0.5<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | (0.1)<br>8 (0.4)<br>%      | 4 4 7 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 4.0<br>4.0<br>8.0<br>8.0                           | 8.0.81<br>0.14<br>0.81<br>0.81 | 4.89.7.80.80<br>8.00.80<br>8.00.80                                | 3 3 5 2         | 6.3 %<br>5.8<br>7.17                     | 8 6 6 4 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 1.0 % (8)<br>6.5<br>1.0 (8) | 8.0 % (8<br>11.0<br>7.0 (8) | 4 00 4 00<br>80 00 00 | 4.2 % (8)<br>8.5<br>3.6 (8) | 4 00 00 00<br>4 1/ 00 4<br>%                   |
| Average  | %   | 5.0 % (8)                  | % 8.9                                       | 8.0 %  | 40,4 %                         | 8.6   | ; <b>i</b>      | 8.5 %                                    | 6.3 %   | 2.5 %                       | 11.0 %                      | 1 1                   | 6.3 %                       |  |

(1) As shown on pages 8 through 13 of this Schedule. Historical growth rates are five-year compound growth rates.

(3) Average of Columns 5 and 6.

(4) From page 9 of this Schedule.

(5) Average of Columns 5 and 6.

(6) Average of Columns 5 and 6.

(7) From page 8 of this Schedule.

(8) Average of Columns 1.

(9) Average of Columns 1.

(1) 2. 3. 4. 5. 6, and 8.

(8) Excludes negatives.

(9) Average of Column 11 and Column 12. Notes:

Value Line Investment Survey, April 28, 2006 ThomsonFN First Call Earnings, ec.thomsonfn.com, updated July 1, 2006

Exhibit No. Schedule PMA-9 Page 2 of 13

## <u>United Utility Companies, Inc.</u> <u>Calculation of Historical BR + SV</u>

|  | 1            | <u>2</u>        | <u>3</u>        | <u>4</u> | <u>5</u>       |
|--|--------------|-----------------|-----------------|----------|----------------|
|  | BR (1)       | S<br>Factor (2) | V<br>Factor (3) | SV (4)   | BR +<br>SV (5) |
| Proxy Group of Six AUS Utility Reports Water Companies               |              |                 |                 |          |                |
| American States Water Co.  | 3.4 %        | 2.2 %           | 43.9 %          | 1.0 %    | 4.4 %          |
| Aqua America, Inc.   | 5.5          | 3.1             | 68.0            | 2.1      | 7.6            |
| Artesian Resources Corp.   | 2.6          | 6.3             | 45.3            | 2.9      | 5.5            |
| California Water Services Group                                      | 1.6          | 4.1             | 51.1            | 2.1      | 3.7            |
| Middlesex Water Company  | 0.8          | 2.8             | 58.3            | 1.6      | 2.4            |
| York Water Company   | 2.5          | 2.9             | 63.8            | 1.9      | 4.4            |
| Average  | <u>2.7</u> % | 3.6 %           | <u>55.1</u> %   | 1.9 %    | <u>4.7</u> %   |
| Proxy Group of Four Value Line<br>(Standard Edition) Water Companies |              |                 |                 |          |                |
| American States Water Co.  | 3.4 %        | 2.2 %           | 43.9 %          | 1.0 %    | 4.4 %          |
| Aqua America, Inc.   | 5.5          | 3.1             | 68.0            | 2.1      | 7.6            |
| California Water Services Group                                      | 1.6          | 4.1             | 51.1            | 2.1      | 3.7            |
| Southwest Water Company  | <u>5.5</u>   | <u>11.1</u>     | _53.9_          | 6.0      | <u>11.5</u>    |
| Average  | <u>4.0</u> % | <u>5.1</u> %    | 54.2_%          | 2.8 %    | 6.8 %          |

- Notes: (1) From column 6, page 3 of this Schedule.
  - (2) From column 12, page 4 of this Schedule.
    (3) From column 7, page 5 of this Schedule.
    (4) Column 2 \* column 3.
    (5) Column 1 + column 4.

# United Utility Companies, Inc. Historical Internal Growth Rate (1), i.e., BR, for the Proxy Group of Six AUS Utility Reports Water Companies and the Proxy Group of Four Value Line (Standard Edition) Water Companies for the Years 2001 - 2005

|  | 1                | <u>2</u>      | 3                 | 4                | <u>5</u> | <u>6</u>   |
|--|------------------|---------------|-------------------|------------------|----------|--|
|  |                  |               |                   |                  |          | Five-Year<br>Average<br>2000-2004<br>Internal Growth |
|  | <u>2005</u>      | 2004          | <u>2003</u>       | 2002             | 2001     | Rate. i.e., BR                                       |
| Proxy Group of Six AUS Utility               |                  |               |                   |                  |          |  |
| Reports Water Companies                      |                  |               |                   |                  |          |  |
| merican States Water Co.                     |                  |               |                   |                  |          |  |
| common Equity Return Rate<br>Retention Ratio | 10.38 %          | 7.99 %        | 5.59 %            | 9.83 %           | 10.37 %  |  |
| nternal Growth Rate (1)                      | 43.59<br>4.52    | 25.17<br>2.01 | (12.98)<br>(0.73) | 35.04<br>3.44    | 35.65    | 2.4.0/ (2)   |
|  |                  | 2.01          | (0.70)            | 3.44             | 3.70     | 3.4 % (2)  |
| qua America, Inc.                            |                  |               |                   |                  |          |  |
| ommon Equity Return Rate                     | 11.69 %          | 11.39 %       | 12.30 %           | 13.92 %          | 13.34 %  |  |
| etention Ratio<br>Iternal Growth Rate (1)    | 43.90<br>5.13    | 42.75         | 43.61             | 45.22            | 42.95    |  |
| normal Clothal Nate (1)                      | 5.15             | 4.87          | 5.36              | 6.29             | 5.73     | 5.5  |
| rtesian Resources Corp.                      |                  |               |                   |                  |          |  |
| ommon Equity Return Rate                     | 8.93 %           | 8.18 %        | 7.41 %            | 9.67 %           | 9.80 %   |  |
| Retention Ratio                              | 31.08            | 25.80         | 19.24             | 34.96            | 31.35    |  |
| nternal Growth Rate (1)                      | 2.78             | 2.11          | 1.43              | 3.38             | 3.07     | 2.6  |
| alifornia Water Services Group               |                  |               |                   |                  |          |  |
| common Equity Return Rate                    | 9.31 %           | 9.72 %        | 8.68 %            | 9.56 %           | 7.49 %   |  |
| letention Ratio                              | 25.81            | 22.97         | 8.79              | 10.13            | (14.22)  |  |
| nternal Growth Rate (1)                      | 2.40             | 2.23          | 0.76              | 0.97             | (1.07)   | 1.6 (2)  |
| iddlesex Water Company                       |                  |               |                   |                  |          |  |
| Common Equity Return Rate                    | 8.45 %           | 9.37 %        | 8.17 %            | 10.10 %          | 9.37 %   |  |
| letention Ratio                              | 6.49             | 9.95          | (6.51)            | 13.33            | 5.88     |  |
| nternal Growth Rate (1)                      | 0.55             | 0.93          | (0.53)            | 1.35             | 0.55     | 0.8 (2)  |
| ork Water Company                            |                  |               |                   |                  |          |  |
| ommon Equity Return Rate                     | 11.85 %          | 12.17 %       | 11.66 %           | 10.37 %          | 11.73 %  |  |
| Retention Ratio                              | 24.70            | 25.86         | 21.04             | 12.32            | 21.97    |  |
| nternal Growth Rate (1)                      | 2.93             | 3.15          | 2.45              | 1.28             | 2.58     | 2.5  |
|  |                  |               |                   |                  |          |  |
| Average                                      |                  |               |                   |                  | ****     | 2.7 %  |
| roxy Group of Four Value Line                |                  |               |                   |                  |          |  |
| Standard Edition) Water                      |                  |               |                   |                  |          |  |
| merican States Water Co.                     |                  |               |                   |                  |          |  |
| common Equity Return Rate<br>etention Ratio  | 10.38 %<br>43.59 | 7.99 %        | 5.59 %            | 9.83 %           | 10.37 %  |  |
| iternal Growth Rate (1)                      | 43.59<br>4.52    | 25.17<br>2.01 | (12.98)<br>(0.73) | 35.04<br>3.44    | 35.65    | 5 4 Hz 485   |
| (1)  | 7.02             | 2.01          | (0.73)            | 3. <del>44</del> | 3.70     | 3.4 % (2)  |
| qua America, Inc.                            |                  |               |                   |                  |          |  |
| Common Equity Return Rate                    | 11.69 %          | 11.39 %       | 12.30 %           | 13.92 %          | 13.34 %  |  |
| etention Ratio                               | 43.90            | 42.75         | 43.61             | 45.22            | 42.95    |  |
| ternal Growth Rate (1)                       | 5.13             | 4.87          | 5.36              | 6.29             | 5.73     | 5.5  |
| alifornia Water Services Group               |                  |               |                   |                  |          |  |
| ommon Equity Return Rate                     | 9.31 %           | 9.72 %        | 8.68 %            | 9.56 %           | 7.49 %   |  |
| etention Ratio                               | 25.81            | 22.97         | 8.79              | 10.13            | (14.22)  |  |
| ternal Growth Rate (1)                       | 2.40             | 2.23          | 0.76              | 0.97             | (1.07)   | 1.6 (2)  |
| outhwest Water Company                       |                  |               |                   |                  |          |  |
| ommon Equity Return Rate                     | 5.38 %           | 4.40 %        | 10.20 %           | 10.32 %          | 12.12 %  |  |
| etention Ratio                               | 42.00            | 21.88         | 64.23             | 64.02            | 67.92    |  |
| nternal Growth Rate (1)                      | 2.26             | 0.96          | 6.55              | 6.61             | 8.23     | 5.5  |
|  |                  |               |                   |                  |          |  |
| Average                                      |                  |               |                   |                  |          | 40 W   |
| · ·  |                  |               |                   |                  |          | 4.0 %  |

Notes: (1) The internal growth rate is calculated by multiplying the common equity return rate by the retention ratio (100% minus the dividend payout ratio). All data are on a consolidated basis.

Source of Information: Standard & Poor's Compustat Services, Inc., PC Plus / Research Insight Database

<sup>(2)</sup> Excludes negatives.

|   | 뒤          | 2005 Average Common Common Shares Share with Outstanding (1) Growth |   | 16.798                    | 128.969 | 4.014                    | 78.390                          | 11.584                  |                    | 0, O.C. | 3 % 16.798 2.2 % 128.969 3.1 (2) 1.13.390 4.1 21.129 11.1 (2) 21.129 5.1 %  |
|---|------------|---|---|---------------------------|---------|--------------------------|---------------------------------|-------------------------|--------------------|---------|---|
|   | 6          | 2004 Common Shares 04-05 Outstanding (1) Growth                     |   | 16.752 0.3                |         |                          |                                 |                         |                    |         | 16.752 0.3<br>127.180 1.4<br>18.367 0.1<br>19.395 8.9   |
| S Factor  | cot        | 03-04<br>Growth   |   | 10.1 %                    | 3.0     | 4.                       | 9.5                             | 7.5                     | 7.3                |         | 10.1 %<br>3.0<br>8.5<br>9.5.9   |
| Outstanding (1), i.e.,  | 7          | 2003<br>Common<br>Shares<br>Outstanding (1)                         |   | 5 15.212                  |         |                          |                                 |                         |                    |         | 15.212<br>123.462<br>16.932<br>15.403   |
| United Utility Companies, Inc. Calculation of Five Year Average Growth in Common Shares Outstanding (1), i.e., S Factor | ω          | 2 ron 02-03 lig (1) Growth  |   | 1 0.2 %                   |         |                          |                                 |                         |                    |         | 11 0.2 %<br>16 9.1 %<br>2 11.5 2 18.4   |
|   | 4I<br>C!   | 2002<br>Common<br>01-02 Shares<br>Growth Outstanding (1)            |   | 4 % 15.181                | •       | 26.2 3.86                |                                 |                         |                    |         | 0.4 % 15.181<br>(0.7) 113.185<br>0.0 15.182<br>(3.6) 13.012   |
|   | က၊         | 2001<br>Common<br>Shares 0:<br>Outstanding (1)                      |   | 15.120 0.                 |         |                          |                                 |                         |                    |         | 15.120 0.<br>113.977 (0.<br>15.182 0.<br>13.499 (3.   |
|   | C4I        | 00-01<br>Growth   |   | % 0.0                     | 6,1     | 1.3                      | 0.2                             | 0.7                     | 5.0                |         | 0.0<br>1.9<br>2.5<br>8  |
|   | <b>~</b> 1 | 2000<br>Common<br>Shares<br>Outstanding (1)                         |   | 15.120                    | 111.825 | 3.020                    | 15.146                          | 10.098                  | 6.010              |         | 15.120<br>111.825<br>15.146<br>13.172   |
|   |            |   | Proxy Group of Six AUS Utility<br>Reports Water Companies | American States Water Co. |         | Artesian Resources Corp. | California Water Services Group | Middlesex Water Company | York Water Company | Average | Proxy Group of Four Value Line (Standard Edition) Water Companies. American States Water Co. Aqua America, Inc. California Water Services Group Southwest Water Company Average |

Notes: (1) Year-end shares outstanding. (2) Excludes negatives.

Source of Information: Standard & Poor's Compustat Services, Inc., PC Plus / Research Insight Database

United Utility Companies, Inc.
Calculation of the Premium/Discount of a
Company's Stock Price Relative to its Book Value, i.e., V Factor

|  | <del>-</del> i                 | 7                              | Юl                             | 41                             | ល                              | ωį                                 | 7               |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------------|-----------------|
|  | 2001                           | 2002                           | 2003                           | 2004                           | 2005                           | Five Year                          |                 |
|  | Market<br>to Book<br>Ratio (1) | Average<br>Market to<br>Book Ratio | V<br>Factor (2) |
| Proxy Group of Six AUS Utility Reports<br>Water Companies            |                                |                                |                                |                                |                                |                                    |                 |
| American States Water Co.  | 174.8 %                        | 180.6 %                        | 180.3 %                        | 164.3 %                        | 191.5 %                        | 178.3 %                            | 43.9 %          |
| Aqua America, Inc.   | 303.5                          | 289.8                          | 295.6                          | 291.4                          | 383.8                          | 312.8                              | 08.0            |
| Artesian Resources Corp.   | 163.8                          | 162.1                          | 184.5                          | 192.8                          | 211.1                          | 182.9                              | 45.3            |
| California Water Services Group                                      | 197.4                          | 181.6                          | 199.8                          | 212.6                          | 231.6                          | 204.6                              | 51.1            |
| Middlesex Water Company  | 236.9                          | 232.9                          | 247.9                          | 241.7                          | 238.9                          | 239.7                              | 58.3            |
| York Water Company   | 214.9                          | 281.5                          | 286.9                          | 287.4                          | 311.0                          | 276.3                              | 63.8            |
| Average  |                                |                                |                                |                                |                                | 232.4 %                            | 55.1 %          |
| Proxy Group of Four Value Line<br>(Standard Edition) Water Companies |                                |                                |                                |                                |                                |                                    |                 |
| American States Water Co.  | 174.8 %                        | 180.6 %                        | 180.3 %                        | 164.3 %                        | 191.5 %                        | 178.3 %                            | 43.9 %          |
| Aqua America, Inc.   | 303.5                          | 289.8                          | 295.6                          | 291.4                          | 383.8                          | 312.8                              | 68.0            |
| California Water Services Group                                      | 197.4                          | 181.6                          | 199.8                          | 212.6                          | 231.6                          | 204.6                              | 51.1            |
| Southwest Water Company  | 234.6                          | 240.3                          | 206.2                          | 222.5                          | 181.5                          | 217.0                              | 53.9            |
| Average  |                                |                                |                                |                                |                                | 228.2 %                            | 54.2 %          |

Notes: (1) Market to Book Ratio = average of yearly high-low market price divided by the average of beginning and ending year's balance of book common equity per share.
(2) (1 - (100 / column 6)).

Source of Information: Standard & Poor's Compustat Services, Inc., PC Plus / Research Insight Database

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| ដ               |   | BR + SV (7)                   |   | 6.2   | S A                      | 5.                              | ¥                       | Y.                 | 5.8 %   |   | 6.2 %   | 0, 4, 6<br>0, 75, 8  | 6.3     |
|-----------------|---|-------------------------------|---|---|--------------------------|---------------------------------|-------------------------|--------------------|---------|---|---|--|---------|
| 임               |   | BR (6)                        |   | 4.4   | - <b>4</b>               | 3.0                             | ¥                       | ¥                  | 4.5 %   |   | 4.4<br>%  | - O a  | 5.1 %   |
| മ               |   | (5) AS                        |   | # C   | S Z                      | 5.                              | ¥                       | ¥                  | 1.3 %   |   | 7.8%  | 0<br>0<br>0<br>0   | 1.2 %   |
| ωI              |   | V<br>Factor (4)               |   | 42.9 %  | ž X                      | 41.6                            | ¥                       | Ϋ́                 | 50.5 %  |   | 42.9 %  | 41.6<br>57.3   | 52.2 %  |
| 7               |   | Average<br>Stock<br>Price (3) |   | \$35.00   | ¥ X                      | 35.00                           | ¥                       | ¥                  |         |   | \$35.00   | 35.00<br>20.50   |         |
| ØΙ              | 09 - 2011 (1)                                 | Book                          |   | 20.00   | ₹                        | 20.45                           | X<br>A                  | ¥                  |         |   | \$20.00   | 20.45<br>8.75  |         |
| ſΩI             | Projected 2009 - 2011 (1)                     | Low<br>Stock<br>Price         |   | 30.00   | ¥                        | 30.00                           | ¥<br>X                  | ¥                  |         |   | \$30.00   | 30.00  |         |
| 41              |   | High<br>Stock<br>Price        |   | 40.00<br>35.00                                  | ¥                        | 40.00                           | ¥                       | Ϋ́                 |         |   | \$40.00   | 40.00<br>25.00   |         |
| <b>ମ</b>        |   | S<br>Factor (2)               |   | 4.1 %   | ¥                        | 3.6                             | Ą                       | ¥                  | 2.8 %   |   | 4.4<br>% 8.0                                    | . 6 £.   | 2.5 %   |
| CAI             | Shares<br>ling (1)<br>000)                    | Projected<br>2009-2011        |   | 20.50   | A<br>A                   | 22.00                           | ¥<br>Z                  | N<br>N             |         |   | 20.50   | 22.00  |         |
| <del>-</del> -1 | Common Shares<br>Outstanding (1)<br>(000,000) | Actual<br>2005                |   | 16.80<br>128.97                                 | ¥                        | 18.39                           | 11.58                   | 6.93               |         |   | 16.80   | 18.39<br>22.33   |         |
|                 |   |                               | Proxy Group of Six AUS Utility<br>Reports Water Companies | American States Water Co.<br>Aqua America, Inc. | Artesian Resources Corp. | California Water Services Group | Middlesex Water Company | York Water Company | Average | Proxy Group of Four Value Line (Standard Edition) Water | American States Water Co.<br>Aqua America, Inc. | California Water Services Group<br>Southwest Water Company | Average |

NA = Not Available

Notes:

From pages 8 through 13 of this Schedule.

The S Factor is the six or five year compound growth rate between the 2005 and 2010 (mid-point of 2009-2011 projection) common shares outstanding.

The Average Stock Price is the average of column 4 and column 5.

(1 - (column 7) column 3.

From page 9, column 8.

From page 9, column 10. <u>50</u> 0**4**006

Source of Information: Value Line Investment Survey, April 28, 2006

|  | #          |           | Projected<br>Internal<br>Growth (8)              | 4 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +                            | 4 0 0 0 0 1.0 %  |
|--|------------|-----------|--|--|--|
|  |            |           |  | }  | 1 1  |
|  | <b>E</b>   |           | Retention<br>Ratio (7)                           | 46.7<br>45.0<br>NA<br>NA<br>NA<br>NA                               | 46.7 %<br>45.0<br>32.2<br>89.5                         |
|  | 17         | 2009-2011 | DPS (1)  | \$0.98<br>0.68<br>0.58<br>NA NA                                    | \$0.96<br>0.66<br>1.22<br>0.29                         |
|  | Ħ          | 200       | EPS(1)   | 8.1.<br>1.2.2<br>N. A. A.<br>A. A. A.                              | \$1.80<br>1.20<br>1.80<br>0.85                         |
|  | 91         |           | Return on<br>Average<br>Common<br>Equity (6)     | 9.36 %<br>N.A.N.<br>N.A.N.<br>9.36<br>N.A.<br>N.A.                 | 9.38 %<br>9.36 8<br>9.88                               |
|  | он         |           | Return on<br>Common<br>Equity (1)                | 8.00.8<br>A.M. A.M.<br>8.00.8<br>A.M. A.M.<br>A.M.                 | 8. 50. 8.<br>50. 8.<br>50. 50. 8.<br>50. 50. 8.        |
|  | <b>c</b> O |           | ROE<br>Adjustment<br>Factor (5)                  | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                              | 201<br>201<br>201<br>201<br>201<br>201                 |
| h Rate   | 1          |           | Annuel<br>Common<br>Equity<br>Growth<br>Rate (4) | 9.09 %<br>8.37 NA<br>NA NA<br>NA NA                                | 9.09 %<br>8.37<br>8.90<br>7.71                         |
| United Utility Companies, Inc.<br>Projected Internal Growth Rate | 401        |           | Common<br>Equity<br>(\$ mil) (3)                 | \$408.00<br>1,212.75<br>NA<br>460.00<br>NA<br>NA                   | \$408.00<br>1,212.75<br>450.00<br>210.00               |
| Projec   | ĸ          | 2009-2011 | Total<br>Capital<br>(\$ mill) (1)                | \$850.00<br>2,475.00<br>NA<br>NA<br>800.00<br>NA<br>NA             | \$860.00<br>2,475.00<br>900.00<br>375.00               |
|  | 41         |           | Common<br>Equity<br>(%) (1)                      | 88 50 88 5<br>N A N A N O O O O O O O A N A N A N A N              | 48.00 %<br>49.00<br>50.00<br>56.00                     |
|  | କା         |           | Common<br>Equity<br>(\$ mill) (2)                | \$284.12<br>817.39<br>817.39<br>80 293.80<br>NA<br>NA              | \$264.12<br>811.39<br>293.80<br>144.86                 |
|  | 7          | 2005      | Total<br>Capted<br>(\$ mil) (1)                  | \$532.50<br>1,690.40<br>NA<br>571.80<br>NA<br>NA                   | \$632.50<br>1,690.40<br>571.60<br>282.90               |
|  | -1         |           | Common<br>Equity<br>(%) (1)                      | 48.90 % 48.00 % A M M M M M M M M M M M M M M M M M M              | 49.80 %<br>48.00<br>51.40<br>56.10                     |
|  |            |           |  | x AUS Using xmparies Mater Co. services Group Company erry Average | Welet Companies Neber Co.  Notes Group Company Average |

Notes:

non equity from 2006 to 2009-2011 or ((((cokurm 6 / column 3) ^ (1/5)) - 1)). 11. (1) From pages 8 through 13 of this Schedule, (2) Column 1' column 2.

(3) Column 4' column 5.

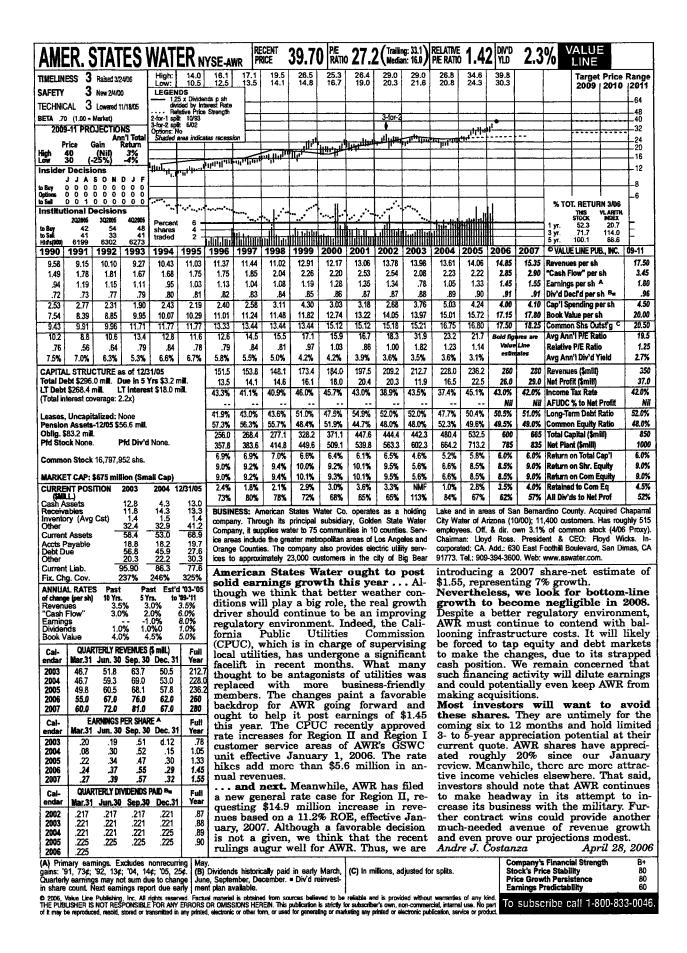
(4) Five year compound growth rate in common eq. (5) 2' ((1 + column 7)/ (2 + column 7)).

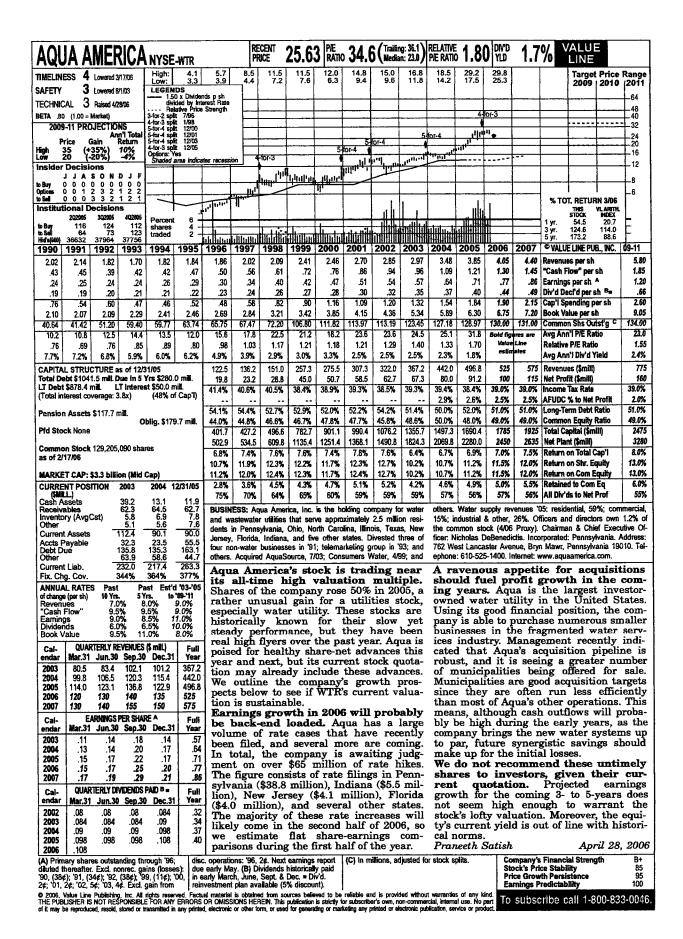
(5) Column 8' column 7/ (2 + column 7).

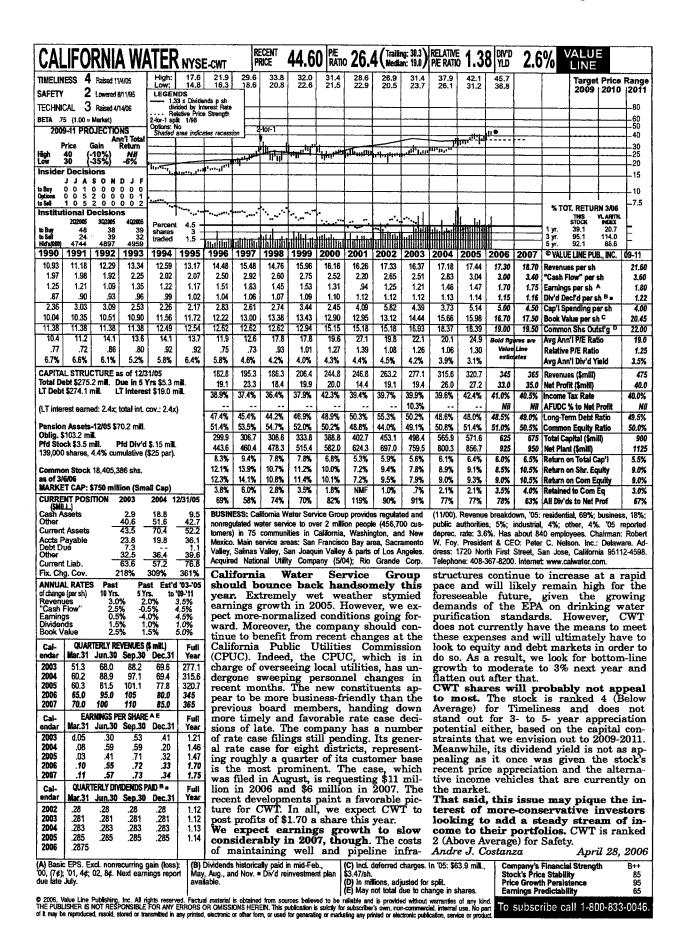
(6) Column 12 t column 13.

(7) 1 - (column 12 t column 13.

(8) Column 10' column 13.



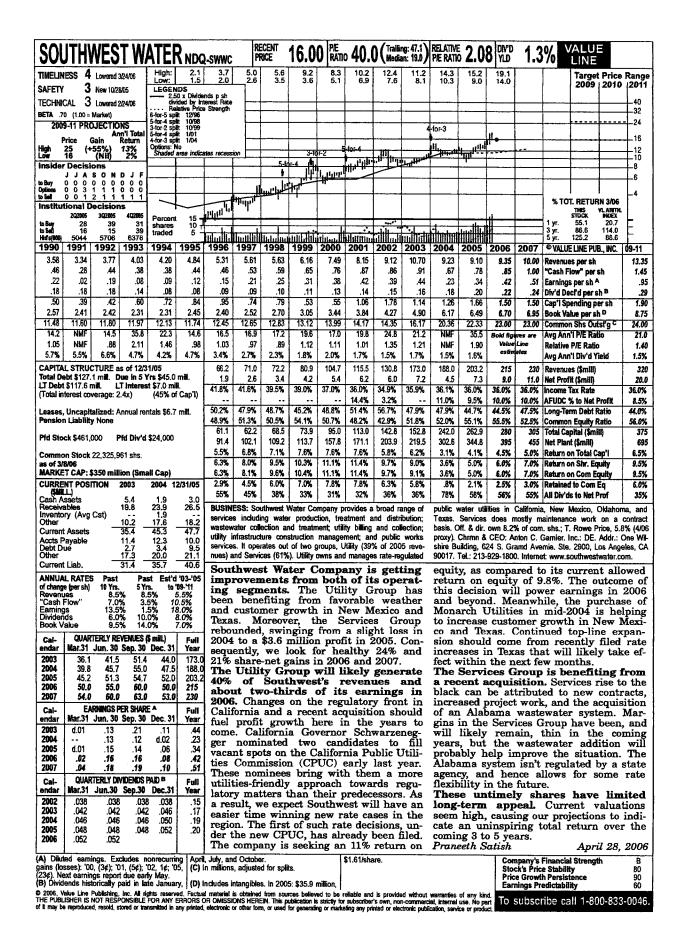




| MIUU  | LES  | EX V   | VATI   | ER N   | DQ-  | MSEX  | PR  | CENT 18.  | 1 TRAILING<br>PIE RATIO  | 26.6 PM  | RATIO 1.28   | S PLD 3  | .6% YA   | NE<br>LUE   |
|---|--|--|--|--|--|---|---|---|--|--|--|--|--|---|
|   | RAN  |  |  | 11.  | <del></del>  | 12.88<br>9.63   | 19.75<br>10.50  | 16.97<br>12.50  | 18.73<br>14.69   | 20.04<br>13.73   | 21.23<br>15.77   | 21.81<br>16.65   | 23.47<br>17.07   | 19.72 High<br>17.03 Low   |
| ERFORI  | MANCE  | 3 Ave  | rage   |  | EGEN   |   |   |   |  |  |  |  | بلاال  | •   |
| echnical  |  | 3 Ave  | rage   | R  | el Pric  | Mov Avg<br>Strength   | 1,11  | · Li-   | سيتالينا   |  | <del>  ::::::!!!!!</del>   | *****  | <del></del>  | 18  |
| AFETY   |  | 2  | rage   | 3-for-2 t<br>4-for-3 t   | solit 11   | 1/03<br>ales recession  | سلبلين  |   |  |  | • • • •  |  |  | 13  |
| BETA .7   | 5  | (1.00 = M  | · 4  | Snaded ar  | BB II CIC  | ales recession  |   | ***   | • • • • • •  |  | •••  |  |  | 8   |
| DLIA ./.  |  | (1.00 - 10   | a kou  |  |  | • • • •   | •   |   |  |  |  | •••.   |  | 5   |
|   | O4   |  | 7.   |  | $\dashv$   | -•  |   |   |  | <del> </del>   | <b></b>  |  | <u> </u>   | 4   |
| inancial  | •  | 1  | B+   |  | $\neg \uparrow$  |   |   |   |  |  |  |  |  |   |
| Price Stal  | bility   |  | 85   |  | 一  |   |   |   |  |  |  |  |  |   |
| Price Gro   | wth Per  | sistence   | 75   |  |  |   |   |   |  |  |  |  |  | 50  |
| Earnings  | Predicta   | bility   | 70   |  |  |   | <u> </u>  |   |  | 1.1111   | h  | 1111111  |  | VOL.  |
|   |  | UBLICITY   | C D'C  |  |  | لىنىيىيى <u>.</u><br>1998   | 1999  | 2000  | 2001   | 2002   | 2003   | 2004   | 2005   | 2006/2007   |
|   |  | UBLISHIN   | G, INC.  | 1997   |  | 4.39  | 5.35  | 5.39  | 5.87   | 5,98   | 6.12   | 6.25   | 6.44   | 2000/2007   |
| SALES PI<br>"CASH FI  |  | ER SH  |  | 4.7<br>1.0   |  | 1.02  | 1.19  | .99   | 1.18   | 1.20   | 1.15   | 1.28   | 1.33   |   |
| EARNING   |  |  |  | .6   | 7  | .71   | .76   | .51   | .66  | .73  | .61  | .73  | .71  | .74 <sup>A.B</sup> /.77 <sup>C</sup>  |
| DIV'DS D  |  | PER SH   |  | 1.2  |  | .58<br>2.68   | ,60<br>2,33   | 1.32  | ,62<br>1,25  | .63<br>1.59  | ,65<br>1,87  | ,66<br>2.63  | .67<br>2.18  |   |
| BOOK VA   |  |  |  | 6.0  |  | 6.80  | 6.95  | 6.98  | 7.11   | 7.39   | 7.60   | 8.38   | 8.60   |   |
|   |  | UTST'G (I  | MILL)  | 8.5  | $\rightarrow$  | 9.82  | 10.00   | 10.11<br>28.7   | 10.17<br>24.6  | 10.36<br>23.5  | 10.48<br>30.0  | 11.36<br>26.4  | 11.58<br>27.4  | 25.5/24.5   |
| AVG ANN<br>RELATIVI   |  |  |  | 13.4<br>.7   | 7  | 15.2<br>.79   | 17.6<br>1.00  | 1.87  | 1.26   | 1.28   | 1.71   | 1.39   | 1.46   | 25.5/24.5   |
| AVG ANN   | I'L DIV'E  |  |  | 6.3  | 3%   | 5.4%  | 4.4%  | 4.2%  | 3.8%   | 3.7%   | 3.5%   | 3.4%   | 3.5%   |   |
| SALES (S  | •  | cn   |  | 40.3<br>37.2   |  | 43.1<br>37.0%   | 53.5<br>33.9%   | 54.5<br>32.2%   | 59.6<br>47.2%  | 61.9<br>47.1%  | 64.1<br>44.0%  | 71.0   | 74.6<br>44.4%  | Bold figures<br>are consensus   |
| DEPREC  |  |  |  | 3.1  | _  | 3.8   | 4.3   | 4.9   | 5.3  | 5.0  | 5.6  | 6.4  | 7.2  | earnings  |
| NET PRO   | <u> </u>   |  |  | 5.9  |  | 6.5<br>31.5%  | 7.9<br>28.8%  | 5.3<br>33.1%  | 7.0<br>34.8%   | 7.8  | 6.6<br>32.8%   | 8.4<br>31.1%   | 8.5<br>27.6%   | estimates<br>and, using the   |
| INCOME<br>NET PRO   |  |  |  | 34.9<br>14.5   |  | 15.1%   | 14.7%   | 9.7%  | 11.7%  | 12.5%  | 10.3%  | 11.9%  | 11.4%  | recent prices,  |
| WORKIN  | G CAP'I  | _ (\$MILL)   |  | d2.9   | - 1  | 14.6  | 6.8   | d2.7  | d.9  | d9.3   | d13.3  | d11.8  | d4.5   | P/E ratios.   |
| LONG-TE<br>SHR. EQ  |  | BT (\$MILL<br>Au 1 \   | .)   | 52.9<br>56.2   |  | 78.0<br>71.7  | 82.3<br>74.6  | 81.1<br>74.7  | 88.1<br>76.4   | 87.5<br>80.6   | 97.4<br>83.7   | 115.3<br>99.2  | 128.2<br>103.6   |   |
|   |  | TAL CAP'L  |  | 6.8  |  | 5.7%  | 6.4%  | 4.9%  | 5.6%   | 6.0%   | 5.0%   | 5.1%   | 5.0%   |   |
| RETURN  |  | R. EQUITY  | <u>′                                    </u>   | 10.4   |  | 9.1%  | 10.6%   | 7.1%  | 9.1%   | 9.6%   | 7.9%   | 8.5%   | 8.2%   | l   |
|   |  |  |  |  |  |   |   |   |  | 1 4 29/  | I ARAC   |  |  |   |
| RETAINE   |  |  |  | 85%  | 7%   | 1.8%<br>81%   | 2.5%<br>78%   | NMF<br>121%   | .5%<br>94%   | 1.3%<br>87%  | NMF<br>106%  | .9%  | .5%<br>94%   |   |
| ALL DIV   | DS TO  | NET PROF   | n. est. in i   | 85%  |  | 81%   | 78%   | 121%  | 94%  | 87%  | 106%   | 90%  | 1  | timate.   |
| ALL DIV   | 'DS TO I   | NET PROF   | n. est. in   | 85%  |  | 81%<br>p, <i>0 down, con</i>  | 78%<br>sensus 5-year e  | 121%  | 94%  | 87%  | 106%<br>analyst's estimat  | 90%<br>le. <sup>C</sup> Based upo  | 94%  | timate.   |
| ALL DIV   | 'DS TO I   | NET PROF   | n. est. in<br>PATES<br>5 Yrs.  | 85%<br>lasi 15 day   | ys: 0 uj   | p, 0 down, con<br>ASSETS (\$<br>Cash Asset  | 78%<br>sensus 5-year e<br>mill.) 2  | 121%<br>amings growth 3<br>2003 2004<br>3.0 4.0   | 94%<br>5% per year. <sup>B</sup> I<br>12/31/05<br>3.0  | 87%<br>Based upon one  | analyst's estimat  | 90%<br>le. <sup>C</sup> Based upo<br>USTRY: W  | 94%<br>n one analyst's es<br>later Utility   |   |
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| of changsales of changsales of changsales 'Cash F Earning- Divident Book Vs Fiscal 12/31/03 12/31/04 12/31/05 12/31/04 12/31/02 12/31/04 12/31/05 12/31/04  | PDS TO Inalysts ch  A A Graph of the control of the | RTERLY S 2Q 16.0 17.8 18.4  RNINGS I 2Q 18 17 16 16  | n. est. in :  5 Yrs. 4.5% 3.5% 1.0% 2.0% 3.5% 6ALES (\$ 30 17.6 19.8 20.8 PER SHA 30 .24 .22 .29 .26 .27   | 85% last 15 day  1 3 3 -2 12  1 4Q 15.5 17.5 18.7  ARE 4Q .19 .11 .19 .17  | Yr. 0% 5% 5% 5% 5% Full Year 64.1 71.0 74.6 Full Year .73 .61 .73 .71  | 81%  D. O down, con  ASSETS (\$Cash Asset Recaivablet Inventory (A Other Current Asset Property, PI & Equip, Accum Dep Net Propert Other Total Asset LIABILITIE Accts Paya Debt Due Other Current Lia   | 78% sensus 5-year e mill.) 2 s s ivity cost) sets ant at cost 2 reciation y 2 s S (\$mill.) ble   | 121% amings growth 3 2004 3.0 4.0 5.7 8.9 1.4 1.2 4.3 9.1 16.0  78.4 308.4 47.5 52.0 30.9 256.4 17.9 63.2 299.1  4.8 6.0 13.6 12.1 9.3 9.7 27.8   | 94% 5% per year. B1 12/31/05 3.0 11.8 1.3 .9 17.0 343.0 555.0 288.0 19.4 324.4 6.0 5.9 9.6   | BUSINES sidiaries, lated wat Jersey, an utility in victail cus System a nicipalitie water sup Perth Amiary, Utili New Jers services to the comp Has 220 NJ. Address  | INDI SS: Middle engages in er utility syd in Delaw southern Net me Middles tomers in lso providers in central ply system boy in New ty Service A seey subsidior residents any named employees.                                     | esex Water the owner ystems in are, as we we Jersey. ex System central N is water se new Jersey and waster Jersey in Southar Dennis V Chairman onson Roa   | 94% n one analyst's es later Utility r Company, this pand operated and as a regulation of the second | through its sub- eration of regu- southern Nev- ated wastewate- ery water utility- erater services to The Middleser- contract to mu any operates the for the city o with its subsid y), Inc. Its othe and wastewate ship. In January ident and CEO Tompkins. Inc. 1500, Iselin, N   |
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| ALL DIV'  ANO. of an of chang Sales "Cash F Earning- Divident Book Va  Fiscal 12/31/03 12/31/04 12/31/05 12/31/06 Fiscal Year 12/31/06 Cal- endar 2003 2004 2005  | PDS TO Inalysts ch  A ge (per s  s ds  ds  due  QUA  15.9  16.7  EA  QUA  12  11  .09  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .09  .12  .12  .11  .12  .12  .13  .14  .15  .15  .17   | RTERLY S 2Q 16.0 17.8 18.4  RNINGS I 2Q 18 17 16  | n. est. in In. Care in In. Car | 85%   15 day   1   3   3   -2   1   2   5   17.5   18.7   18.7   19   11   .19   .17   S PAID   4Q   .165   .168   .17   ONS   5   44  | ys: 0 uy Yr. 0% 5% 5% 5% 5% Full Year 64.1 71.0 74.6 Full Year .73 .61 .73 .71 Full Year .65 .66 .67                 | 81% p. 0 down, con  ASSETS (\$ Cash Asset Recaivables Inventory (\$ Other Current Ass Property, Pl & Equip, Accum Dep Not Propert Other. Total Asset LIABILITIE Accts Payal Debt Due Other Current Lia LONG-TER as of 12 Total Debt LT Debt \$ Including 0 Leases, Ut Pension Li                | 78% sensus 5-year e mill.) 2 s s ivity cost) sets ant at cost 2 reciation y 2 s S (\$mill.) ble b b 28 (\$mill.) cap. Leases N ncapitalized Allability \$8.7 mill | 121% amings growth 3 2004 3.0 4.0 5.7 9.9 14.4 1.2 14.4 16.0 78.4 308.4 47.5 52.0 30.9 256.4 17.9 26.7 63.2 299.1 4.8 6.0 13.6 12.1 9.3 9.7 27.7 27.8  EQUITY  Due in 5 Yra one formulai rentals Ni in '05 vs. \$5.5 Pfd Div'd        | 94% 5% per year. B <sub>1</sub> 12/31/05 3.0 11.8 1.3 9 17.0 343.0 55.0 288.0 19.4 324.4 6.0 5.9 9.6 21.5  | BUSINES sidiaries, lated wat tretail cus System a nicipalitie water sup Perth Am iary, Utili New Jers services to the comp Has 220 on NJ. Addres 08830. http://www.  | INDI SS: Middle engages in er utility sign of in Delaw southern Ne me Middlese tomers in its providers in central ply system boy in New ty Service Assey subsidio residents any named employees. ess: 1500 R. Tel.: w.middlese:    | esex Water the owner yestems in are, as we water se water | 94% n one analysis es later Utility r Company, iship and ope central and il as a regulatis New Jerse) provides we were Jersey. The company rvice under system partnership Perth Ambovide water anpton Towns J. Richard d, P.O. Box 634-1506 n.  2006  JRN node analysis especially a regular provides water anpton Towns J. Richard d, P.O. Box 634-1506 n.  | through its sub- eration of regu- southern New sted wastewater sey water utility after services to The Middlesex contract to mu- any operates the for the city or with its subsid- y), Inc. Its other and wastewater thip. In January ident and CEO Tompkins. Inc. 1500, Iselin, N. D. Internet  A.Z.  diation as of 3/31/200                           |
| ALL DIV'  ANO. of ar  of chans Sales  "Cash F  Earning Divident Book V*  Fiscal Year  12/3 1/03 12/3 1/04 12/3 1/05 12/3 1/06  Fiscal Year  12/3 1/02 12/3 1/04 12/3 1/05 12/3 1/06  Calendar  2003 2004 2005 2006  | PDS TO I nalysts ch  A ge (per s  s ds  alue  QUA  15.0  15.9  16.7  12  11  .09  .12  .11  .12  .13  .14  .15  .15  .15  .15  .15  .15  .15  | RTERLY S 2Q 16.0 17.8 18.4 2Q RNINGS I 2Q RRIERLY D 2Q 16 17 16 17 16 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 17 18 19 19 10  | n. est. in  | 85% fast 15 day  1 3 3 -2 12  5mill.) 4Q 15.5 17.5 18.7  ARE 4Q .19 .11 .19 .17  S PAID 4Q .165 .168 .17   | Yr. 0.0% 55% 55% 55% 55% Full Year 64.1 71.0 74.6 Full Year .73 .71 Full Year .65 .66 .67                            | 81%  D. O down, con  ASSETS (\$Cash Asset Recaivablet Inventory (A Other Current Asset Property, Pi & Equip, Accum Dep Net Propert Other Total Asset  LIABILITIE Accts Paya Debt Due Other Current Lia  LONG-TER as of 12 Total Debt LT Debt \$1 Including i Leases, Ut Pension Li Pfd Stock \$ | 78% sensus 5-year e mill.) 2 s s ivity cost) sets ant at cost 2 reciation y 2 s S (\$mill.) ble b b 28 (\$mill.) cap. Leases N ncapitalized Allability \$8.7 mill | 121% amings growth 3 2004 3.0 4.0 5.7 9.9 1.4 1.2 4.3 14.4 16.0 78.4 308.4 47.5 52.0 30.9 256.4 17.9 26.7 63.2 299.1 4.8 6.0 13.6 12.1 9.3 27.7 27.8  EQUITY  Due in 5 Yrd one (5 noual rentals No. 1, 10'5 vs. \$5.5 Pfd Dh'd shares | 94% 5% per year. B1 12/31/05 3.0 11.8 1.3 .9 17.0 343.0 55.0 288.0 19.4 324.4 6.0 5.9 9.6 21.5  \$ | BUSINES sidiaries, lated wat tretail cus System a nicipalitie water sup Perth Amiary, Utili New Jers services to the comp Has 220 of NJ. Addm 08830. http://www.   | INDI SS: Middle engages in er utility sign of in Delaw southern Ne he Middlese tomers in iso provide: si in central pply system boy in New ty Service A sey subsidio residents any named employees. Ess: 1500 R. Tel.: w.middlese: | 90%  te. CBased upo  USTRY: W  tesex Water the owner ystems in are, as we two Jersey. ex System central N s water se New Jersey in Affiliates ( aries provin Southar Dennis V  Chairman Onson Roa (732) xwater.com  April 28,  DER RETI  Divide  | 94% n one analysis es later Utility r Company, ship and ope central and las a regula lits New Jerse) provides wew Jersey. rvice under y. The company rvice under system partnership Perth Amboy ide water anpton Towns V. Doll presi J. Richard d, P.O. Box 634-1500 n.  2006 JRN ands plus apprecir. 3 Yin.   | through its sub- tration of regu- southern New southern New ted wastewater tey water utility after services to The Middlesex contract to mu- any operates the and for the city or with its subsid- y), Inc. Its other and wastewater thip. In January dent and CEO Tompkins. Inc. 1500, Iselin, N. D. Internet  A.Z.  diation as of 3/31/200 rs. 5 Yrs. |

| TUK  | <b>WATER</b>   | CO   | NDQ-   | -YOR   | W   | RI<br>Pi  | ECENT<br>Rice   | 25.8  | 0 TRAILING<br>P/E RATIO   | 30.7 開   | ATIVE 1.48   | PIVD 2.  | 6% <b>Y</b> AL  | VE<br>UE  |
|--|--|--|--|--|---|---|---|---|---|--|--|--|---|---|
|  | RANKS  | Ť  |  | T  |   |   | T   |   | 15.33<br>8.50   | 20.17<br>12.30   | 20.23<br>14.00   | 21.04<br>16.50   | 26.81<br>17.50  | 28.00 Hig<br>23.00 Lo   |
| PERFORM  | MANCE 3 Averag   | I  |  | EGEI   | NDS   |   |   | }   |   |  |  |  |   | 45  |
|  | 2  | ·  | 12   | 2 Mos  | Mov Avg   |   |   |   |   | •  |  |  |   |   |
| echnical   | 3 Avere  | ~ II   | 2-for-1 s  | split 5  | e Strength //02   |   | +-  |   |   |  |  |  | 1311  | 30  |
| SAFETY   | 3 Avera  | ge   L   | Shaded ar  | ea indic   | ales recession  |   | +   |   |   | -  | ılı.   | 111111111111111111111111111111111111111  |   | 22.5  |
| BETA .50   | ) (1.00 = Mar  | rket)  |  |  |   |   |   |   |   | 1,11111111   | 1-1-11111111   |  |   | 13  |
|  | (  |  |  |  |   |   | T   |   | 111111111111111111111111111111111111111   | '  |  | •••  | · , ·   |   |
|  |  |  |  |  |   |   | 1   |   |   |  |  |  |   |   |
| Financial S  | Strength E   | 3+ ├   |  | $\rightarrow$  |   |   |   |   | <del></del>   |  |  |  |   | 6   |
| rice Stab  | ility  | 60 L   |  | _  |   |   |   |   |   | ļ  |  |  |   | 4   |
|  | •  | <u>.</u>   |  | 1  |   |   | -   |   |   |  | <del></del>  |  |   | 3   |
| Price Grov   | wth Persistence NA   | vı-  |  |  |   |   | -   |   |   |  |  |  | 1.1. 1  | 1   |
| Earnings I   | Predictability NA  | VF -   |  |  |   |   |   |   |   |  | 111111111  |  |   | H vo  |
|  |  |  |  |  |   |   | +   |   |   | 1  |  |  |   |   |
| O VALUE  | LINE PUBLISHING  | , INC.   | 1997   |  | 1998  | 1999  |   | 2000  | 2001  | 2002   | 2003   | 2004   | 2005  | 2006/2007   |
| REVENUE  | S PER SH   |  | -  | 1  |   | · -   |   |   | 3.08  | 3.07   | 3.25   | 3.27   | 3.87  |   |
|  | _OW" PER SH  |  |  | 1  | - '   | _   | 1   |   | .88   | .86  | .97  | .98  | 1.18  | .94 <sup>A,B</sup> /NA  |
|  | S PER SH   |  |  | i  | -   |   | 1   | _   | .65<br>.51  | .60<br>.53   | .70<br>.55   | .73<br>.59   | .84<br>.64  | ,94 · ~-/NA   |
|  | CL'D PER SH<br>ENDING PER SH   | +  |  | $\dashv$   |   |   | +-  |   | 1.12  | .99  | 1.61   | 3.76   | 2.53  |   |
|  | LUE PER SH   |  | _  |  | _   | _   |   |   | 5.69  | 5.85   | 6.08   | 6.98   | 7.27  |   |
|  | SHS OUTST'G (MI  | LL)  |  |  |   |   |   |   | 6.31  | 6.36   | 6.42   | 6.89   | 6.93  |   |
|  | 'L P/E RATIO   |  | -  |  |   | _   | Т   | _   | 17.9  | 26.9   | 24.5   | 25.7   | 26.3  | 27.4/NA   |
|  | E P/E RATIO  |  | -  | - 1  |   | -   |   |   | .92   | 1.47   | 1.40   | 1.36   | 1.40  |   |
|  | I'L DIV'D YIELD  |  |  | _  |   | <del>-</del>  |   | 18.5  | 4.3%<br>19.4  | 3.3%   | 3.2%   | 3.1%<br>22.5   | 2.9%<br>26.8  | Bold figures  |
|  | ES (\$MILL)  |  | -  | - 1  | -   | -   | 1   | 3.8   | 4.0   | 3.8  | 4.4  | 4.8  | 5.8   | are consensus   |
|  | FIT (\$MILL) TAX RATE  | -  |  | -  |   |   |   | 35.7%   | 35.8%   | 34.9%  | 34.8%  | 36.7%  | 36.7%   | earnings  |
|  | TO NET PROFIT  |  | _  | - 1  | _   | _   |   | -   | 2.2%  | 3.7%   | _  | -  | -   | estimates   |
|  | RM DEBT RATIO  |  |  |  | -   | -   | 1   | 50.2%   | 47.7%   | 46.7%  | 43.4%  | 42.5%  | 44.1%   | and, using the  |
| COMMON   | EQUITY RATIO   |  | -  |  |   |   |   | 49.8%   | 52.3%   | 53.3%  | 56.6%  | 57.5%  | 55.9%   | recent prices,  |
|  | APITAL (\$MILL)  |  |  |  | _   | -   |   | 65.2  | 68.6  | 69.9   | 69.0   | 83.6   | 90.3  | P/E ratios.   |
|  | NT (\$MILL)  |  | _  |  |   |   | -   | 97.0  | 102.3   | 106.7  | 116.5  | 140.0  | 155.3   |   |
|  | ON TOTAL CAP'L   |  | -  | - 1  |   | -   | 1   | 7.9%<br>11.6%   | 7.9%  | 7.4%<br>10.2%  | 8.5%<br>11.4%  | 7.6%<br>10.0%  | 8.4%<br>11.6%   |   |
|  | ON SHR. EQUITY<br>ON COM EQUITY  | 1  | _  |  | _   | _   |   | 11.6%   | 11.2%   | 10.2%  | 11.4%  | 10.0%  | 11.6%   |   |
|  | D TO COM EQ  |  |  |  |   |   | +   | 2.5%  | 2.5%  | 1.3%   | 2.6%   | 2.1%   | 3.0%  | 1   |
|  | DS TO NET PROF   |  | _  |  |   | -   | 7   | 8%  | 78%   | 88%  | 77%  | 79%  | 74%   |   |
| ANo. of an   | alysts changing earn.  | est in la  | st 15 day  | rs: 0 u  | p, 0 down, cons   | ensus 5-year  | eaming  | s growth 7.   | 0% per year. B  | Based upon one   | analyst's estimati   | Р.   |   |   |
|  | AMMUAA BA  | TES  |  |  | 4005770.46  | •111 1  |   |   |   |  | IMDI   | JSTRY: Wa  | ator ! Itility  |   |
|  | ANNUAL KA  |  |  | Yr.  | ASSETS (\$  |   | 2002  | 2004  | 4294ME  |  | MU   |  | arei omini  |   |
| of chang   | ANNUAL RA<br>ne (per share)  | 5 Yrs.   | 1  |  | I Coch Accete   |   | 2003  | 2004  | 12/31/05  |  | INDO   |  | ater ounty  |   |
| Revenue  | ge (per share)<br>es   |  | 18.  | 5%   | Cash Assets<br>Receivables  |   | .0<br>3.2   | .2<br>3.7   | .0<br>3.8   | BUSINES  |  |  | <u>-</u>  | ges in the im   |
| Revenue<br>"Cash Fi  | ge (per share)<br>es<br>llow"  |  | 18.<br>20.   | 5%<br>5%   | Receivables<br>Inventory  |   | .0<br>3.2<br>.6   | .2<br>3.7<br>.7   | .0<br>3.8<br>.8   |  | SS: York   | Water Con  | npany enga  |   |
| Revenue  | ge (per share)<br>es<br>iow"<br>s  |  | 18.<br>20.<br>15.  | 5%   | Receivables<br>Inventory<br>Other   |   | .0<br>3.2<br>.6<br>.3   | .2<br>3.7<br>.7<br>4  | .0<br>3.8<br>.8<br><u>.5</u>  | pounding,<br>County, l   | SS: York purification  | Water Con<br>n, and dist<br>a. As of   | npany enga<br>tribution of<br>December  | water in Yor<br>31, 2005, th  |
| Revenue<br>"Cash Fi<br>Earnings  | ge (per share)<br>es<br>iow"<br>s<br>s   | 5 Yrs.<br><br>   | 18.<br>20.<br>15.<br>7.  | .5%<br>.5%<br>.0%  | Receivables<br>Inventory  |   | .0<br>3.2<br>.6   | .2<br>3.7<br>.7   | .0<br>3.8<br>.8   | pounding,<br>County, I<br>company  | SS: York purification<br>Pennsylvani<br>had two r  | Water Con<br>n, and dist<br>a. As of<br>eservoirs,   | npany enga<br>tribution of<br>December<br>Lake Willi  | water in Yor<br>31, 2005, th<br>ams and Lak   |
| Revenue<br>"Cash Fi<br>Earnings<br>Dividend<br>Book Val  | ge (per share)<br>as<br>iow"<br>s<br>s<br>dis<br>diue  | 5 Yrs.<br><br><br>-9.5%  | 18.<br>20.<br>15.<br>7.<br>4.  | 5%<br>5%<br>.0%<br>.5%<br>.0%  | Receivables<br>Inventory<br>Other<br>Current Asse<br>Property, Pla  | ets   | .0<br>3.2<br>.6<br>.3<br>4.1  | 3.7<br>.7<br><u>.4</u><br>5.0   | .0<br>3.8<br>.8<br>.5<br>5.1  | pounding,<br>County, I<br>company<br>Redman,   | SS: York purification<br>Pennsylvani<br>had two r  | Water Conn, and distant<br>a. As of eservoirs, ther held a   | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate   | water in Yor<br>31, 2005, th<br>ams and Lak<br>ly 2.23 billio   |
| Revenue<br>"Cash Fi<br>Earnings<br>Dividend  | ge (per share)<br>es<br>iow"<br>s<br>s   | 5 Yrs.<br><br><br>-9.5%  | 18.<br>20.<br>15.<br>7.<br>4.  | .5%<br>.5%<br>.0%<br>.5%   | Receivables<br>Inventory<br>Other<br>Current Assa<br>Property, Pk<br>& Equip,   | ets<br>ant<br>at cost   | .0<br>3.2<br>.6<br>.3<br>4.1  | .2<br>3.7<br>.7<br><u>.4</u><br>5.0   | .0<br>3.8<br>.8<br>.5<br>5.1  | pounding,<br>County, I<br>company<br>Redman,<br>gallons of   | SS: York purification purification purification had two rather toge water. It su   | Water Con<br>n, and dist<br>a. As of<br>eservoirs,<br>ther held a<br>upplies wat   | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside  | water in Yor<br>31, 2005, th<br>ams and Lak<br>ly 2.23 billio<br>ential, commen   |
| Revenue "Cash Fi Earnings Dividend Book Val Fiscal Year  | pe (per share) as siow" s dia diue  QUARTERLY SA   | 5 Yrs.<br><br>-9.5%<br>  | 18.<br>20.<br>15.<br>7.<br>4.<br>mill.)  | 5%<br>5%<br>0%<br>5%<br>0%   | Receivables<br>Inventory<br>Other<br>Current Asso<br>Property, Pla<br>& Equip,<br>Accum Depri   | ets<br>ant<br>at cost<br>eciation   | .0<br>3.2<br>.6<br>.3<br>4.1  | 3.7<br>.7<br><u>.4</u><br>5.0   | .0<br>3.8<br>.8<br>.5<br>5.1  | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus  | SS: York purification purification purification purification had two rewhich toge water. It sustrial, and o  | Water Conn, and distant a. As of esservoirs, ther held applies wat ther custon   | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for residences. As of   | water in Yor<br>31, 2005, th<br>ams and Lakely 2.23 billion<br>ential, commentate above date  |
| Revenue<br>"Cash Fi<br>Earnings<br>Dividend<br>Book Val<br>Fiscal<br>Year  | ge (per share) es siow" s dis due  QUARTERLY SA 1Q 2Q  | 5 Yrs.<br><br>-9.5%<br><br>LES (\$r  | 18.<br>20.<br>15.<br>7.<br>4.<br>mill.)  | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5   | Receivables inventory Other Current Asset Property, Pk & Equip, Accum Depr Net Property Other   | ant<br>ant cost<br>eciation   | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9   | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1  | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9  | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa   | SS: York purification purification purification purification had two rewhich toge water. It sustrial, and only served a  | Water Con<br>n, and dist<br>a. As of<br>eservoirs,<br>ther held a<br>applies wat<br>ther custon<br>approximate   | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 of  | water in Yor<br>31, 2005, th<br>ams and Lakely 2.23 billion<br>ential, comment<br>the above date<br>customers in 3  |
| Revenue<br>"Cash Fi<br>Earnings<br>Dividend<br>Book Val<br>Fiscal<br>Year<br>12/31/03<br>12/31/04<br>12/31/05  | ge (per share) es iow" s is is is it iu  | 5 Yrs.<br><br>-9.5%<br><br>LES (\$r<br>3Q                                    | 18.<br>20.<br>15.<br>7.<br>4.<br>mill.)<br>4Q  | 5%<br>5%<br>5%<br>5%<br>0%<br>Full<br>Year<br>20.9   | Receivables inventory Other Current Asset Property, Pk & Equip, Accum Depr Net Property Other   | ant<br>ant cost<br>eciation   | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5  | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0  | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3  | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal  | S: York purification purification purification purification in the purification pur | Water Con n, and dist a. As of eservoirs, ther held a applies wat ther custon approximat k County.   | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 of<br>Has 97 em                           | water in Yor<br>31, 2005, th<br>ams and Lak<br>by 2.23 billion<br>ential, comment<br>the above date<br>customers in 3<br>ployees. Chain   |
| Revenue "Cash Fi Earnings Dividend Book Val  Fiscal Year  12/31/03 12/31/04  | ge (per share) sis sis sis sis diue  QUARTERLY SA 1Q 2Q 4.8 5.0 5.3 5.5  | 5 Yrs.<br>   | 18,<br>20,<br>15,<br>7,<br>4.<br>mill.)<br>4Q<br>5.3<br>6.1  | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5   | Receivables<br>Inventory<br>Other<br>Current Asso<br>Property, Pla<br>& Equip,<br>Accum Depr<br>Net Property<br>Other<br>Total Assets   | ant<br>at cost<br>eciation  | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9   | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1  | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9  | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indu-<br>the compa<br>municipal<br>man: Will                             | purification ennsylvani had two r which toge water. It su strial, and o any served a ities in Yor iam Morris   | Water Con n, and dist a. As of eservoirs, ther held a applies wat ther custon approximat k County. Inc.: PA.   | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor<br>31, 2005, th<br>ams and Lak-<br>dy 2.23 billio<br>ential, comment<br>the above date<br>customers in 3<br>ployees. Chair<br>30 East Marke  |
| Revenue "Cash Fi Earnings Dividend Book Val  Fiscal Year 12/31/03 12/31/04 12/31/05 12/31/06 Fiscal  | ge (per share) as als als dow" as als als due  CUARTERLY SA 1Q 2Q  4.8 5.0 5.3 5.5 6.2 6.7  EARNINGS PE  | 5 Yrs.<br>   | 18, 20, 15, 7, 4, 4Q 5.3 6.1 6.7   | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8   | Receivables Inventory Other Current Asso Property, Pla & Equip, Accum Depr Net Property Other Total Assets  LIABILITIES Accts Payab   | ant at cost eciation (\$mill.)  | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9   | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1  | .0<br>3.8<br>8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3                                | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor<br>31, 2005, the<br>ams and Lakely 2.23 billionential, commer<br>the above date<br>customers in 3<br>ployees. Chair<br>30 East Market  |
| Revenue<br>"Cash Fi<br>Earnings<br>Dividend<br>Book Val<br>Fiscal<br>Year<br>12/31/03<br>12/31/04<br>12/31/05<br>12/31/06  | ge (por share) as als itow' s is als diue  | 5 Yrs.<br>   | 18, 20, 15, 7, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,  | 5%<br>5%<br>0%<br>.5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8  | Receivables Inventory Other Current Assu-Property, Pk & Equip, Accum Depr Net Property Other Total Assets  LIABILITIES Accts Payab Debt Due   | ant at cost eciation (\$mill.)  | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9<br>127.5                                    | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1                               | .0<br>3.8<br>8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3                                | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | purification ennsylvani had two r which toge water. It su strial, and o any served a ities in Yor iam Morris   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | ges in the im<br>water in Yor<br>31, 2005, th<br>ams and Lak-<br>ely 2.23 billion<br>the above date<br>sustomers in 3-<br>ployees. Chair<br>30 East Marke<br>3601. Internet   |
| Revenue "Cash Fi Earnings Dividend Book Val Fiscal Year 12/3 1/03 12/3 1/04 12/3 1/05 12/3 1/06 Fiscal Year 12/3 1/02  | ge (per share) as als als dow" s als als due   | 5 Yrs.<br>-9.5%<br><br>SEES (\$r<br>3Q<br>5.8<br>5.6<br>7.2<br>ER SHAI<br>3Q | 18. 20. 15 7. 4. mill.) 4Q 5.3 6.1 6.7 RE 4Q 13  | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60  | Receivables Inventory Other Current Ass. Property, Pt & Equip, Accum Depr Net Property Other Total Assets  LIABILITIES Accts Payah Debt Due Other   | ant<br>ant at cost<br>eciation<br>,<br>s (\$mill.)  | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9<br>127.5                                    | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1                               | .0<br>3.8<br>8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3                                | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor<br>31, 2005, the<br>ams and Lakely 2.23 billionential, commer<br>the above date<br>customers in 3<br>ployees. Chair<br>30 East Market  |
| Revenue "Cash Fi Earnings Dividend Book Vai  Fiscal Year  12/31/03 12/31/04 12/31/05 12/31/06  Fiscal Year  12/31/06  12/31/06   | QUARTERLY SA<br>1Q 2Q<br>4.8 5.0<br>5.3 5.5<br>6.2 6.7<br>EARNINGS PE<br>1Q 2Q<br>1.14 .15<br>.12 .16  | 5 Yrs.<br>   | 18, 20, 15, 7, 4, 4Q, 5.3, 6.1, 6.7, RE 4Q, .13, 18  | 5%<br>5%<br>0%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60                                | Receivables Inventory Other Current Assu-Property, Pk & Equip, Accum Depr Net Property Other Total Assets  LIABILITIES Accts Payab Debt Due   | ant<br>ant at cost<br>eciation<br>,<br>s (\$mill.)  | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9<br>127.5                                    | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1                               | .0<br>3.8<br>8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3                                | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor<br>31, 2005, th<br>ams and Lak-<br>dy 2.23 billio<br>ential, comment<br>the above date<br>customers in 3<br>ployees. Chair<br>30 East Marke  |
| Revenue "Cash Fi Earnings Dividend Book Val Year 12/31/03 12/31/04 12/31/05 12/31/06 Fiscal Year 12/31/02 12/31/04 12/31/04  | ge (per share) as iow" s is is in the County share iow   QUARTERLY SA   1Q   | 5 Yrs.<br>   | 18, 20, 15, 7, 4, 4Q, 5.3, 6.1, 6.7, RE 4Q, .13, .18, .21  | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70                                     | Receivables Inventory Other Current Ass. Property, Pt & Equip, Accum Depr Net Property Other Total Assets  LIABILITIES Accts Payah Debt Due Other   | ant<br>ant at cost<br>eciation<br>,<br>s (\$mill.)  | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9<br>127.5                                    | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1                               | .0<br>3.8<br>8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3                                | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor<br>31, 2005, the<br>ams and Lakely 2.23 billionential, comment<br>the above date<br>customers in 3<br>ployees. Chain<br>30 East Marke  |
| Revenue "Cash FI Earnings Dividend Book Val Year 12/31/03 12/31/04 12/31/05 12/31/06 Fiscal Year 12/31/02 12/31/02 12/31/04 12/31/05 12/31/05 12/31/05   | QUARTERLY SA<br>1Q 2Q<br>4.8 5.0<br>5.3 5.5<br>6.2 6.7<br>EARNINGS PE<br>1Q 2Q<br>1.14 .15<br>.12 .16  | 5 Yrs.<br>   | 18, 20, 15, 7, 4, 4Q, 5.3, 6.1, 6.7, RE 4Q, .13, 18  | 5%<br>5%<br>0%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60                                | Receivables inventory Other Current Assu Equip, Accum Depr Net Property Other Total Assets Accts Payab Debt Due Other Current Liab  | ant at cost eciation (s (\$mill.)   | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9<br>127.5                                    | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2 | .0<br>3.8<br>8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3                                | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor<br>31, 2005, the<br>ams and Lakely 2.23 billionential, comment<br>the above date<br>customers in 3<br>ployees. Chain<br>30 East Marke  |
| Revenue "Cash FI Earnings Dividend Book Val Fiscal Year 12/31/03 12/31/05 12/31/05 FIscal Year 12/31/05 12/31/06 12/31/06  | ge (per share) as als als diue  CUARTERLY SA 1Q 2Q 4.8 5.0 5.3 5.5 6.2 6.7  EARNINGS PE 1Q 2Q 1.14 15 1.12 16 1.18 16 1.18 21 2.21 2.24  | 5 Yrs.<br>-9.5%<br>  | 18, 20, 15, 7, 4, 15, 3, 6, 1, 6, 7, 18, .21, .20  | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70<br>.73<br>.84                       | Receivables Inventory Other Current Assu Equip, Accum Depr Net Property Other Total Assets LIABILITIES Accts Payab Debt Due Other Current Liab  | ant at cost eciation (s (\$mill.)   | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9<br>127.5                                    | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2 | .0<br>3.8<br>8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3                                | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor<br>31, 2005, th<br>ams and Lak-<br>dy 2.23 billio<br>ential, comment<br>the above date<br>customers in 3<br>ployees. Chair<br>30 East Marke  |
| Revenue "Cash FI Earnings Dividend Book Val Year 12/31/03 12/31/04 12/31/05 12/31/06 Fiscal Year 12/31/02 12/31/02 12/31/04 12/31/05 12/31/05 12/31/05   | ge (per share) as als als diue  QUARTERLY SA 1Q 2Q 4.8 5.0 5.3 5.5 6.2 6.7  EARNINGS PE 1Q 2Q 1.4 15 1.2 16 1.8 .16 1.18 .21   | 5 Yrs.<br>-9.5%<br>  | 18, 20, 15, 7, 4, 15, 3, 6, 1, 6, 7, RE 4Q, .13, 18, .21, .20  | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70                                     | Receivables Inventory Other Current Assu & Equip, Accum Depr Net Property Other Total Assets LIABILITIES Accts Payab Debt Due Other Current Liab LONG-TERI as of 12   | ant at cost eciation (see (\$mill.) le  | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9<br>127.5                                    | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2 | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3<br>2.6<br>19.3<br>2.8<br>24.7 | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor<br>31, 2005, th<br>ams and Lak-<br>dy 2.23 billio<br>ential, comment<br>the above date<br>customers in 3<br>ployees. Chair<br>30 East Marke  |
| Revenue "Cash FI Earnings Dividend Book Val Year 12/3 1/03 12/3 1/04 12/3 1/05 12/3 1/06 Fiscal Year 12/3 1/04 12/3 1/05 12/3 1/05 12/3 1/06 Calendar  | ge (per share) as alow as alow CUARTERLY SA 1Q 2Q 4.8 5.0 5.3 5.5 6.2 6.7  EARNINGS PE 1Q 2Q 1.4 .15 1.2 16 1.8 .16 1.8 .21 2.1 .24  QUARTERLY DIV 1Q 2Q   | 5 Yrs  | 18. 20. 15. 7. 4. 4. 4. 4. 4. 4. 6. 7. 8. 4. 4. 4. 1. 182120. 5. PAID 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.   | 5%<br>5%<br>0%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70<br>.73<br>.84           | Receivables Inventory Other Current Assi Property, Pla & Equip, Accum Depr Net Property Other Total Assets  LIABILITIES Accts Payab Debt Due Other Current Liab  LONG-TERI as of 12  Total Debt \$33                      | ant at cost existion (\$\frac{4}{3}\$) (\$\frac{4}\$) (\$\frac{4}{3}\$) (\$\frac{4}{3}\$) (\$\frac{4}{3}\$) (\$\frac{4}{3 | .0<br>3.2<br>6<br>.3<br>4.1<br>139.1<br>22.6<br>6.9<br>127.5<br>1.77<br>9.9<br>2.4<br>14.0<br>Du          | .2<br>3.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2       | .0<br>3.8<br>8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3                                | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor<br>31, 2005, th<br>ams and Lak-<br>dy 2.23 billio<br>ential, comment<br>the above date<br>customers in 3<br>ployees. Chair<br>30 East Marke  |
| Revenue "Cash FI Earnings Dividend Book Val Year 12/3 1/03 12/3 1/04 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05 12/3 1/05   | ge (per share) as als als dive  QUARTERLY SA 1Q 2Q  4.8 5.0 5.3 5.5 6.2 6.7  EARNINGS PE 1Q 2Q  1.4 .15 .12 .16 .18 .16 .18 .21 .21 .24  QUARTERLY DIV   | 5 Yrs  | 18, 20, 15, 7, 4, 15, 3, 6, 1, 6, 7, 8, 18, 18, 18, 18, 18, 21, 20, 5, PAID  | 5%<br>5%<br>0%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70<br>.73<br>.84           | Receivables Inventory Other Current Assi Property, Pla & Equip, Accum Depr Net Property Other Total Assets  LIABILITIES Accts Payab Debt Due Other Current Liab  LONG-TERI as of 12  Total Debt \$33                      | ant at cost eciation  (S (\$mill.)  M DEBT AND 31/05  \$59.2 mill.  | .0<br>3.2<br>6<br>.3<br>4.1<br>139.1<br>22.6<br>6.9<br>127.5<br>1.77<br>9.9<br>2.4<br>14.0<br>Du          | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2 | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3<br>2.6<br>19.3<br>2.8<br>24.7 | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for reside<br>ners. As of<br>ely 55,731 c<br>Has 97 em<br>Address: 1              | water in Yor 31, 2005, thams and Lakely 2.23 billionential, commer the above date to the above date to the above that 30 East Marks 3601. Interne   |
| Revenue "Cash Fi Earnings Dividend Book Val Fiscal Year 12/3 1/05 12/3 1/06 Fiscal Year 12/3 1/06 Fiscal Year 12/3 1/06 Cal-endar 2003   | QUARTERLY SA 1Q 2Q 4.8 5.0 5.3 5.5 6.2 6.7  EARNINGS PE 1Q 2Q 1.14 .15 1.12 .16 1.18 .16 1.18 .21 2.21 .24  QUARTERLY DIV 1Q 2Q 1.135 .135   | 5 Yrs9.5% 9.5% 1LES (\$4 3Q .18 .24 .18 .24 .18 .25 .25 .10DENDS 3Q .135     | 18. 20. 155 7. 4. 4. 4. 4. 4. 4. 4. 13 18 .21 .20 5 PAID 4Q 135  | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70<br>.73<br>.84<br>Full<br>Year       | Receivables Inventory Other Current Assu Property, Pla & Equip, Accum Depr Net Property Other Total Assets Accts Payab Debt Due Other Current Liab LONG-TERI as of 12 Total Debt \$33 including C                         | ant at cost existion (\$\frac{4}{3}\$) (\$\frac{4}\$) (\$\frac{4}{3}\$) (\$\frac{4}{3}\$) (\$\frac{4}{3}\$) (\$\frac{4}{3 | .0<br>3.2<br>.6<br>.3<br>4.1<br>139.1<br>22.6<br>116.5<br>6.9<br>127.5<br>1.7<br>9.9<br>2.4<br>14.0<br>Du | .2<br>3.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2       | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3<br>2.6<br>19.3<br>2.8<br>24.7 | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and dist a. As of eservoirs, ther held a applies wat ther custon approximat k County. Inc.: PA. 405. Tel.:   | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for residencers. As of<br>ely 55,731 of<br>Has 97 em<br>Address: 1:<br>(717) 845- | water in Yor 31, 2005, thams and Lakely 2.23 billionential, comment the above date that the above date that the above date that all the statements in 3 ployees. Chair 30 East Marks 3601. Interne  |
| Revenue "Cash File Cash Fi | e (per share) as iow sis is in the County share  | 5 Yrs  | 18, 20, 155, 7, 4, 4Q, 136, 16, 7, 18, 21, 20, 20, 145, 145, 18, 21, 20, 135, 145, 145, 145, 145, 145, 145, 145, 14  | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70<br>.73<br>.84<br>Full<br>Year       | Receivables inventory Other Current Asset Equip, Accum Deprined Total Assets LIABILITIES Accts Payab Debt Due Other Current Liab LONG-TERI as of 12/1 Total Debt \$3/2 Including C Leases, Un                             | ant at cost at cost eciation (%) (\$mill.) de  M DEBT AND 31/05 559.2 mill. 3.8 mill. ap. Leases 3  | .0 3.2 .6 .3 .3 .4.1 .139.1 .22.6 .116.5 .6.9 .127.5 .1.7 .9.9 .2.4 .14.0                                 | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2 | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3<br>2.6<br>19.3<br>2.8<br>24.7 | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo               | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and distance of eservoirs, ther held at the custon approximate k County. Inc.: PA. 405. Tel.:  | npany enga<br>tribution of<br>December<br>Lake Willi<br>approximate<br>er for residencers. As of<br>ely 55,731 of<br>Has 97 em<br>Address: 1:<br>(717) 845- | water in Yor 31, 2005, thams and Lakely 2.23 billionential, comment the above date that the above date that the above date that all the statements in 3 ployees. Chair 30 East Marks 3601. Interne  |
| Revenue "Cash Fi Cash Fi Earnings Dividend Book Val Fiscal Year 12/31/03 12/31/05 12/31/06 Fiscal Year 12/31/06 12/31/06 Cal-endar 2003 2004 2005  | e (per share) as iow sis is in iow sis is in iow sis is in iow sis in iow sio | 5 Yrs  | 18 200 15 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70<br>.73<br>.84<br>Full<br>Year       | Receivables inventory Other Current Asset Equip, Accum Deprined Total Assets LIABILITIES Accts Payab Debt Due Other Current Liab LONG-TERI as of 12/1 Total Debt \$3/2 Including C Leases, Un                             | ant at cost eciation ( S (\$mill.)  M DEBT AND 31/05  \$59.2 mill.  30.8 mill.  31. Leases \$1.   | .0 3.2 .6 .3 .3 .4.1 .139.1 .22.6 .116.5 .6.9 .127.5 .1.7 .9.9 .2.4 .14.0                                 | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2 | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3<br>2.6<br>19.3<br>2.8<br>24.7 | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo<br>http://www | purification Pennsylvani had two r which toge water. It st strial, and o ony served a ities in Yor iam Morris ork, PA 17- w.yorkwater  | Water Conn, and distance of the control of the cont | npany enga<br>tribution of<br>December<br>Lake Williapproximate<br>er for residencers. As of<br>ely 55,731 of<br>Has 97 em<br>Address: 1.<br>(717) 845-     | water in Yor<br>31, 2005, th<br>ams and Lak<br>dy 2.23 billio<br>ential, comment<br>the above date<br>customers in 3<br>ployees. Chair<br>30 East Marke<br>3601. Interne  |
| Revenue "Cash Fi Cash Fi Earnings Dividend Book Val Fiscal Year 12/31/03 12/31/05 12/31/06 Fiscal Year 12/31/06 12/31/06 Cal-endar 2003 2004 2005  | ge (per share) as iow sis is in  | 5 Yrs  | 18 200 15 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  | 5%<br>5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70<br>.73<br>.84<br>Full<br>Year | Receivables inventory Other Current Asset Equip, Accum Deprined Total Assets LIABILITIES Accts Payab Debt Due Other Current Liab LONG-TERI as of 12/1 Total Debt \$3/2 Including C Leases, Un                             | ant at cost eciation // s (\$mill.) le  M. DEBT AND 31/05 S 9.2 mill. 3.8 mill. 3.9 capitalized Ability \$3.9 mill.   | .0 3.2 .6 .3 .3 .4.1 .139.1 .22.6 .116.5 .6.9 .127.5 .1.7 .9.9 .2.4 .14.0                                 | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2 | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3<br>2.6<br>19.3<br>2.8<br>24.7 | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo<br>http://www | S: York purification cennsylvani had two r which toge water. It strain, and only served a ities in Yoriam Morrisork, PA 17   | Water Conn, and dista. As of esservoirs, ther held applies wat ther custon approximate k County. Inc.: PA. 405. Tel.: com.   | npany enga<br>tribution of<br>December<br>Lake Willia<br>approximate<br>er for residences. As of<br>ely 55,731 of<br>Has 97 em<br>Address: 1.<br>(717) 845- | water in Yor 31, 2005, the ams and Lake 19 2.23 billio ential, commerthe above date to the above the above that the above the |
| Revenue "Cash Fi Cash Fi Earnings Dividend Book Val Fiscal Year 12/31/03 12/31/05 12/31/06 Fiscal Year 12/31/06 12/31/06 Cal-endar 2003 2004 2005  | e (per share) as iow sis is in iow sis is in iow sis is in iow sis in iow sio | 5 Yrs  | 18 20 15 7 4 4 4 4 4 4 4 4 4 4 4 5 3 6.1 6.7 8 6.1 18 21 20 135 PAID 4 4 4 4 4 1 5 5 14 5 5 PAID 5 P | 5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70<br>.73<br>.84<br>Full<br>Year       | Receivables Inventory Other Current Assu Equip, Accum Depr Net Property Other Total Assets Accts Payab Debt Due Other Current Liab LONG-TERI as of 12/2 Total Debt 33/2 Including C Leases, Un Pension Liab Infel Stock N | ant at cost eciation (  6 (\$mill.)  M DEBT AND 31/05  59.2 mil.  9.8 mil.  ap. Leases \$ capitalized A ability \$3.9 min.  | .0 3.2  | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2 | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3<br>2.6<br>19.3<br>2.8<br>24.7 | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo<br>http://ww  | purification Pennsylvani had two r which toge water. It su strial, and o uny served a ities in Yor iam Morris ork, PA 17- w.yorkwater  | Water Conn, and dista. As of esservoirs, ther held applies wat ther custom approximate k County. Inc.: PA. 405. Tel.: c.com.   | npany engatribution of December December Lake Williapproximate er for residencers. As of ely 55,731 of Has 97 em Address: 1. (717) 845-                     | water in Yor 31, 2005, the ams and Lakely 2.23 billion ential, comment the above date sustomers in 3 ployees. Chair 30 East Market 3601. Internet   |
| Revenue "Cash Fical Year 12/31/03 12/31/04 12/31/05 12/31/06 Fiscal Year 12/31/06 Calendar 2003 2004 2005 2006   | ge (per share) as iow" as ide QUARTERLY SA 1Q 2Q 4.8 5.0 5.3 5.5 6.2 6.7  EARNINGS PE 1Q 2Q 1.14 .15 .12 .16 .18 .21 .21 .24  QUARTERLY DIV 1Q 2Q 1.35 .135 .145 .145 .156 .156 .168 .168  INSTITUTIONAL E 2Q'05   | 5 Yrs  | 18 200 15 7 4. mill.] 4Q 5.3 6.1 6.7 RE 4Q 13 18 21 20 5 PAID 4Q 135 145 156 NNS   | 5%<br>5%<br>5%<br>0%<br>5%<br>0%<br>Full<br>Year<br>20.9<br>22.5<br>26.8<br>Full<br>Year<br>.60<br>.70<br>.73<br>.84<br>Full<br>Year | Receivables Inventory Other Current Assu Equip, Accum Depr Net Property Other Total Assets Accts Payab Debt Due Other Current Liab LONG-TERI as of 12/2 Total Debt 33/2 Including C Leases, Un Pension Liab Infel Stock N | ant at cost eciation // s (\$mill.) le  M. DEBT AND 31/05 S 9.2 mill. 3.8 mill. 3.9 capitalized Ability \$3.9 mill.   | .0 3.2  | .2<br>3.7<br>.7<br>.4<br>5.0<br>164.3<br>24.3<br>140.0<br>11.1<br>156.1<br>1.8<br>16.3<br>3.1<br>21.2 | .0<br>3.8<br>.8<br>.5<br>5.1<br>182.4<br>27.1<br>155.3<br>11.9<br>172.3<br>2.6<br>19.3<br>2.8<br>24.7 | pounding,<br>County, I<br>company<br>Redman,<br>gallons of<br>cial, indus<br>the compa<br>municipal<br>man: Will<br>Street, Yo<br>http://www | purification Pennsylvani had two r which toge water. It st strial, and o ony served a ities in Yor iam Morris ork, PA 17- w.yorkwater  | Water Conn, and dista. As of esservoirs, ther held applies wat ther custon approximate k County. Inc.: PA. 405. Tel.: com.   | npany engatribution of December December Lake Williapproximate or residences. As of ely 55,731 of Has 97 em Address: 1. (717) 845-                          | water in Yori 31, 2005, the ams and Lake the 2.23 billion ential, comment the above date above |

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## <u>United Utility Companies, Inc.</u> Indicated Common Equity Cost Rate Through Use of a Risk Premium Model <u>Using an Adjusted Total Market Approach</u>

| Line<br><u>No.</u> |   | Proxy Group of Six AUS<br>Utility Reports Water | Proxy Group of Four Value<br>Line (Standard Edition)<br>Water Companies |
|--------------------|---|---|---|
| 1.                 | Prospective Yield on Aaa Rated<br>Corporate Bonds (1)   | 6.3 %   | 22.0  |
|                    | Corporate Borids (1)  | <b>5.3</b> %                                    | 6.3 %   |
| 2.                 | Adjustment to Reflect Yield Spread<br>Between Aaa Rated Corporate<br>Bonds and A Rated Public |   |   |
|                    | Utility Bonds   | 0.5 (2)   | 0.5 (2)   |
| 3.                 | Adjusted Prospective Yield on A Rated   |   |   |
|                    | Public Utility Bonds  | 6.8 %   | 6.8 %   |
| 4.                 | Adjustment to Reflect Bond  |   |   |
|                    | Rating Difference of Proxy Group  | (3)   | 0.0 (3)   |
| <b>5</b> .         | Adjusted Prospective Bond Yield   | 6.8   | 6.8   |
| 6.                 | Equity Risk Premium (4)   | 4.4   | 4.5   |
| 7.                 | Risk Premium Derived Common<br>Equity Cost Rate   | 11.2 %  | 11.3_%  |

Notes: (1) Derived in Note (3) on page 6 of this Schedule.

- (2) The average yield spread of A rated public utility bonds over Aaa rated corporate bonds of 0.46%, rounded to 0.5% from page 4 of this Schedule.
- (3) No adjustment necessary as the average Moody's bond rating of the proxy group is A2.
- (4) From page 5 of this Schedule.

Comparison of Bond Ratings and Business Profile for the Proxy Group of Six AUS Utility Reports Water Companies and the Proxy Group of Four Value Line (Standard Edition) Water Companies United Utility Companies, Inc.

| Standard & Poor's<br>Business Position<br>/ Profile (2) |   | 3.0<br>2.0<br>3.0<br>2.0<br>2.6   | 3.0<br>2.0<br>3.0<br>   |
|---|---|---|---|
|   | Credit Numerical Rating Weighting (1)                     | 6.2   | 7 5 5 1   |
| 2006<br>& Poor's<br>Rating                              | Credit<br>Rating  | A A A A A A A A A A A A A A A A A A A   | A A + + A   |
| June 2006<br>Standard & Poor's<br>Bond Rating           | Numerical<br>Weighting (1)                                | F 4 : : 0 9 8.5   | F 4 : : 5.8   |
|   | Bond<br>Rating  | A A N N A A A A A A A A A A A A A A A A   | A-A-NR A+/A   |
| June 2006<br>Moody's<br>Bond Rating                     | Numerical<br>Weighting (1)                                | o ; ; o ; ; o   | 6 ; 6 ;   |
| J   | Bond<br>Rating  | A2<br>NR<br>A2<br>NR<br>A2<br>A2  | A2 NR A2 A2 A2 A2   |
|   | Proxy Group of Six AUS Utility<br>Reports Water Companies | American States Water Co. (3) Aqua America, Inc. (4) Artesian Resources Corp. California Water Service Group (5) Middlesex Water Company York Water Company Average | Proxy Group of Four Value Line (Standard Edition) Water American States Water Co. (3) Aqua America, Inc. (4) California Water Service Group (5) Southwest Water Company Average |

From page 3 of this Schedule. Notes:

From Standard & Poor's U.S. Utilities and Power Ranking List, June 30, 2006 Ratings and business profile are those of Golden State Water Company Ratings and business profile are those of Aqua Pennsylvania, Inc. Ratings and business profile are those of California Water Service Company. £00€0

Source of Information:

Moody's Investors Service Standard & Poor's Global Utilities Rating Service

Exhibit No. \_\_\_\_ Schedule PMA-10 Page 3 of 9

# United Utility Companies, Inc. Numerical Assignment for Moody's and Standard & Poor's Bond Ratings

| Moody's<br>Bond Rating | Numerical<br>Bond Weighting | Standard & Poor's Bond Rating |
|------------------------|-----------------------------|-------------------------------|
| Aaa                    | 1                           | AAA                           |
| Aa1                    | 2                           | AA+                           |
| Aa2                    | 3                           | AA                            |
| Aa3                    | 4                           | AA-                           |
| A1                     | 5                           | A+                            |
| A2                     | 6                           | A                             |
| A3                     | 7                           | A-                            |
| Baa1                   | 8                           | BBB+                          |
| Baa2                   | 9                           | BBB                           |
| Baa3                   | 10                          | BBB-                          |
| Ba1                    | 11                          | BB+                           |
| Ba2                    | 12                          | BB                            |
| Ba3                    | 13                          | BB-                           |

Moody's Comparison of Interest Rate Trends for the Three Months Ending May 2006 (1)

| Spread - Public Utility Bonds | •  | Baa over A  |                                | 0.23 %                      |
|-------------------------------|--|-------------|--------------------------------|-----------------------------|
| Spread - Pul                  |  | A over Aa   |                                | 0.27 %                      |
| Jtility Bonds                 | Baa (Pub.<br>Util.) over   | Aaa (Corp.) |                                | % 69:0                      |
| rporate v. Public L           | Aa (Pub. A (Pub. Util.) Baa (Pub. Util.) over Over Aaa Util.) over | (Corp.)     |                                | 0.46 %                      |
| Spread - Co                   | Aa (Pub.<br>Util.) over  | Aaa (Corp.) |                                | 0.19 %                      |
|                               | 10   | Baa Rated   | 6.26 %<br>6.54 %<br>6.59       | 6.46 %                      |
|                               | Public Utility Bonds   | A Rated     | 5.98 %<br>6.29<br>6.42         | 6.23 %                      |
|                               |  | Aa Rated    | 5.71 %<br>6.02<br>6.16         | 2.96 %                      |
|                               | Corporate<br>Bonds   | Aaa Rated   | 5.52 %<br>5.84<br>5.95         | 5.77 %                      |
|                               |  | Years       | March-06<br>April-06<br>May-06 | Average of Last<br>3 Months |

Notes: (1) All yields are distributed yields.

Source of Information: Mergent Bond Record, June 2006, Vol. 73, No. 6

Exhibit No. \_\_\_\_ Schedule PMA-10 Page 5 of 9

# United Utility Companies, Inc. Judgment of Equity Risk Premium for the Proxy Group of Six AUS Utility Reports Water Companies and the Proxy Group of Four Value Line (Standard Edition) Water Companies

| Line<br>No. |   | Proxy Group of Six AUS Utility Reports Water Companies | Proxy Group of Four<br>Value Line (Standard<br>Edition) Water<br>Companies |
|-------------|---|--|--|
| 1.          | Calculated equity risk premium based on the total market using the beta approach (1)                                  | 4.3 %  | 4.6 %  |
| 2.          | Mean equity risk premium based on a study using the holding period returns of public utilities with A rated bonds (2) | 4.4  | 4.4  |
| 3.          | Average equity risk premium   | 4.4 %  | 4.5 %  |

Notes: (1) From page 6 of this Schedule.

(2) From page 8 of this Schedule.

## <u>United Utility Companies, Inc.</u> Derivation of Equity Risk Premium Based on the Total Market Approach Using the Beta for

the Proxy Group of Six AUS Utility Reports Water Companies and the Proxy Group of Four Value Line (Standard Edition) Water Companies

| Line<br><u>No.</u> |  | Proxy Group of Six AUS Utility Reports Water | Proxy Group of Four Value<br>Line (Standard Edition)<br>Water Companies |
|--------------------|--|--|---|
| 1.                 | Arithmetic mean total return rate on<br>the Standard & Poor's 500 Composite<br>Index - 1926-2005 (1) | 12.3 %                                       | 12.3 %  |
| 2.                 | Arithmetic mean yield on<br>Aaa and Aa Corporate Bonds<br>1926-2005 (2)                              | (6.1)  | (6.1)   |
| 3.                 | Historical Equity Risk Premium   | 6.2 %  | <u>6.2</u> %  |
| 4.                 | Forecasted 3-5 year Total Annual<br>Market Return (3)  | 12.5 %                                       | 12.5 %  |
| 5.                 | Prospective Yield an Aaa Rated<br>Corporate Bonds (4)  | (6.3)  | (6.3)   |
| 6.                 | Forecasted Equity Risk Premium   | <u>6.2</u> %                                 | 6.2 %   |
| 7.                 | Average of Historical and Forecasted<br>Equity Risk Premium (5)                                      | 6.2 %  | 6.2 %   |
| 8.                 | Adjusted Value Line Beta (6)   | 0.70   | 0.74  |
| 9.                 | Beta Adjusted Equity Risk Premium  | 4.3 %  | <u>4.6</u> %  |

Notes: (1) From Stocks, Bonds, Bills and Inflation - 2006 Yearbook Valuation Edition, Ibbotson Associates, Inc., Chicago, IL, 2006.

- (2) From Moody's Industrial Manual and Mergent Bond Record Monthly Update.
- (3) From page 3 of Schedule PMA-11.
- (4) Average forecast based upon six quarterly estimates of Aaa rated corporate bonds per the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts dated July 1, 2006 (see page 7 of this Schedule). The estimates are detailed below.

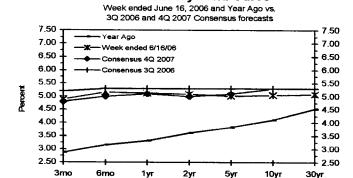
| Third Quarter 2006  | 6.2 % |
|---------------------|-------|
| Fourth Quarter 2006 | 6.3   |
| First Quarter 2007  | 6.3   |
| Second Quarter 2007 | 6.3   |
| Third Quarter 2007  | 6.3   |
| Fourth Quarter 2007 | 6.2   |
| Average             | 6.3 % |

- (5) Average of the Historical Equity Risk Premium of 6.2% from Line No. 3 and the Forecasted Equity Risk Premium of 6.2% from Line No. 6 ((6.2% + 6.2%) / 2 = 6.2%).
- (5) From page 9 of this Schedule.

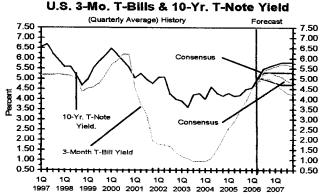
## Consensus Forecasts Of U.S. Interest Rates And Key Assumptions<sup>1</sup>

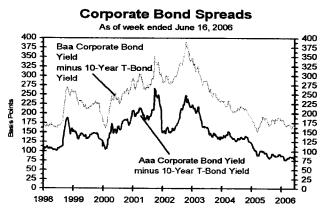
|                         |                |           |         | Histo  | гу   |            |       |           | Cons                               | ensus | Foreca | sts-Ou | rterly               | Avo. |
|-------------------------|----------------|-----------|---------|--------|------|------------|-------|-----------|------------------------------------|-------|--------|--------|----------------------|------|
|                         | Ave            | erage For | Week En | ding   | Ave  | rage For N | Ionth | Latest Q* | 3Q                                 | 4Q    | 10     | 2Q     | 3Q                   | 4Q   |
| Interest Rates          | <u>June 16</u> | June 9    | June 2  | May 26 | May  | Apr.       | Mar.  | 20, 2006  | 2006                               | 2006  | 2007   | 2007   | 2007                 | 2007 |
| Federal Funds Rate      | 5.00           | 4.99      | 5.01    | 4.98   | 4.94 | 4.79       | 4.59  | 4.91      | 5.3                                | 5.4   | 5.4    | 5.2    | 5.1                  | 4.9  |
| Prime Rate              | 8.00           | 8.00      | 8.00    | 8.00   | 7.93 | 7.75       | 7.53  | 7.89      | 8.3                                | 8.4   | 8.4    | 8.2    | 8.1                  | 8.0  |
| LIBOR, 3-mo.            | 5.34           | 5.28      | 5.25    | 5.21   | 5.18 | 5.07       | 4.92  | 5.18      | 5.5                                | 5.6   | 5.5    | 5.4    | 5.2                  | 5.1  |
| Commercial Paper, 1-mo. | 5.10           | 5.02      | 4.99    | 4.98   | 4.95 | 4.80       | 4.61  | 4.93      | 5.4                                | 5.5   | 5.4    | 5.3    | 5.1                  | 5.0  |
| Treasury bill, 3-mo.    | 4.89           | 4.86      | 4.84    | 4.83   | 4.84 | 4.72       | 4.63  | 4.81      | 5.2                                | 5.3   | 5.2    | 5.1    | 4.9                  | 4.8  |
| Treasury bill, 6-mo.    | 5.16           | 5.06      | 5.05    | 5.01   | 5.01 | 4.90       | 4.79  | 5.00      | 5.3                                | 5.4   | 5.4    | 5.2    | 5.1                  | 5.0  |
| Treasury bill, 1 yr.    | 5.13           | 5.04      | 5.03    | 4.99   | 5.00 | 4.90       | 4.77  | 4.99      | 5.3                                | 5.4   | 5.4    | 5.3    | 5.2                  | 5.1  |
| Treasury note, 2 yr.    | 5.09           | 5.00      | 5.00    | 4.96   | 4.97 | 4.89       | 4.73  | 4.96      | 5.3                                | 5.3   | 5.3    | 5.2    | 5.1                  | 5.0  |
| Treasury note, 5 yr.    | 5.02           | 4.95      | 4.99    | 4.95   | 5.00 | 4.90       | 4.72  | 4.96      | 5.3                                | 5.3   | 5.3    | 5.2    | 5.2                  | 5.1  |
| Treasury note, 10 yr.   | 5.05           | 5.01      | 5.08    | 5.05   | 5.11 | 4.99       | 4.72  | 5.05      | 5.3                                | 5.3   | 5.3    | 5.3    | 5.3                  | 5.3  |
| Treasury note, 30 yr.   | 5.09           | 5.07      | 5.18    | 5.15   | 5.20 | 5.06       | 4.73  | 5.12      | 5.3                                | 5.4   | 5.4    | 5.4    | 5.4                  | 5.3  |
| Corporate Aaa bond      | 5.83           | 5.81      | 5.91    | 5.90   | 5.95 | 5.84       | 5.53  | 5.88      | 6.2                                | 6.3   | 6.3    | 6.3    | 6.3                  | 6.2  |
| Corporate Baa bond      | 6.71           | 6.67      | 6.75    | 6.72   | 6.75 | 6.68       | 6.41  | 6.71      | 7.1                                | 7.2   | 7.2    | 7.2    | 7.2                  | 7.1  |
| State & Local bonds     | 4.58           | 4.48      | 4.57    | 4.52   | 4.59 | 4.58       | 4.44  | 4.57      | 4.9                                | 5.0   | 5.0    | 5.0    | 5.0                  | 5.0  |
| Home mortgage rate      | 6.63           | 6.62      | 6.67    | 6.62   | 6.60 | 6.51       | 6.32  | 6.58      | 6.8                                | 6.9   | 6.9    | 6.9    | 6.8                  | 6.8  |
|                         |                |           |         | Histor | V    |            |       |           | Consensus Forecasts-Quarterly Avg. |       |        |        |                      |      |
|                         | 3Q             | 4Q        | 1Q      | 2Q     | 3Q   | 4Q         | 1Q    | 2Q*       | 3Q                                 | 4Q    | 1Q     | 2Q     | 3Q                   | 4Q   |
| Key Assumptions         | 2004           | 2004      | 2005    | 2005   | 2005 | 2005       | 2006  | 2006      | 2006                               | 2006  | 2007   | 2007   | 2007                 | 2007 |
| Major Currency Index    | 86.5           | 81.9      | 81.3    | 83.5   | 84.7 | 85.8       | 84.9  | 82.1      | 81.9                               | 81.1  | 80.6   | 79.9   | <del>2007</del> 79.6 | 79.5 |
| Real GDP                | 4.0            | 3.3       | 3.8     | 3.3    | 4.1  | 1.7        | 5.3   | 2.9       | 2.9                                | 2.9   | 2.8    | 2.9    | 3.0                  | 3.1  |
| GDP Price Index         | 1.5            | 2.7       | 3.1     | 2.6    | 3.3  | 3.5        | 3.3   | 3.0       | 2.4                                | 2.4   | 2.5    | 2.3    | 2.2                  | 2.2  |
| Consumer Price Index    | 2.1            | 3.6       | 2.3     | 3.8    | 5.5  | 3.3        | 2.2   | 4.4       | 2.7                                | 2.5   | 2.5    | 2.4    | 2.4                  | 2.3  |
| 1                       |                |           |         |        |      |            |       |           |                                    |       |        |        |                      |      |

Individual panel members' forecasts are on pages 4 through 9. Historical data for interest rates except LIBOR is from Federal Reserve Release (FRSR) H.15. LIBOR quotes available from The Wall Street Journal. Definitions reported here are same as those in FRSR H.15. Treasury yields are reported on a constant maturity basis. Historical data for the U.S. Federal Reserve Board's Major Currency Index is from FRSR H.10 and G.5. Historical data for Real GDP and 4.64 GDP Chained Price Index are from the Bureau of Economic Analysis (BEA). Consumer Price Index (CPI) history is from the Department of Labor's Bureau of Labor Statistics (BLS). \*Interest rate data for 2Q 2006 based on historical data through the week ended May 16th. Data for 2Q 2006 Real GDP, GDP Chained Price Index and Consumer Price Index are consensus forecasts based on a special question survey this month of the panel members.



U.S. Treasury Yield Curve





Maturities

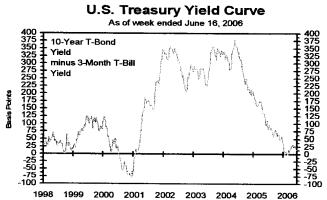


Exhibit No. \_\_\_\_ Schedule PMA-10 Page 8 of 9

## <u>United Utility Companies, Inc.</u> Derivation of Mean Equity Risk Premium Based on a Study <u>Using Holding Period Returns of Public Utilities</u>

|             |                                | Over A Rated<br>Public Utility Bonds |
|-------------|--------------------------------|--------------------------------------|
|             |                                | AUS Consultants -                    |
| Line        |                                | Utility Services                     |
| No.         |                                | Study (1)                            |
|             |                                | 1                                    |
| Time Period |                                | 1928-2005                            |
| 1.          | Arithmetic Mean Holding Period |                                      |
|             | Returns (2):                   |                                      |
|             | Standard & Poor's Public       |                                      |
|             | Utility Index                  | 11.0 %                               |
| 2.          | Arithmetic Mean Yield on:      |                                      |
|             | A Rated Public Utility Bonds   | (6.6)                                |
| 3.          | Equity Risk Premium            | 4.4 %                                |

- Notes: (1) S&P Public Utility Index and Moody's Public Utility Bond Average Annual Yields 1928-2005, (US Consultants Utility Services, 2006).
  - (2) Holding period returns are calculated based upon income received (dividends and interest) plus the relative change in the market value of a security over a one-year holding period.

Exhibit No. \_\_\_\_ Schedule PMA-10 Page 9 of 9

# United Utility Companies, Inc. Value Line Adjusted Betas for the Proxy Group of Six AUS Utility Reports Water Companies and the Proxy Group of Four Value Line (Standard Edition) Water Companies

|  | Value Line<br>Adjusted<br>Beta             |
|--|--|
| Proxy Group of Six AUS Utility<br>Reports Water Companies  |  |
| American States Water Co. Aqua America, Inc. Artesian Resources, Corp. California Water Service Group Middlesex Water Company York Water Company Average | 0.70<br>0.80<br>NA<br>0.75<br>0.75<br>0.50 |
| Proxy Group of Four Value Line<br>(Standard Edition) Water<br>Companies  |  |
| American States Water Co.<br>Aqua America, Inc.<br>California Water Service Group<br>Southwest Water Company   | 0.70<br>0.80<br>0.75<br>                   |
| Average  | 0.74                                       |

NA = Not Available

Source of Information: <u>Value Line Investment Survey</u>, April 28, 2006 Standard Edition and Small and Mid-Cap Edition

Exhibit No. \_\_\_\_ Schedule PMA-11 Page 1 of 3

# United Utility Companies, Inc. of the Capital Asset Pricing Model for the Proxy Group of Six AUS Utility Reports Water Companies and the Proxy Group of Four Value Line (Standard Edition) Water Companies

| Line       |  | Proxy Group of Six AUS Utility | Proxy Group of Four Value<br>Line (Standard Edition) |
|------------|--|--------------------------------|--|
| <u>No.</u> |  | Reports Water Companies        | Water Companies                                      |
| 1.         | Traditional Capital Asset<br>Pricing Model (1) | 10.4 %                         | 10.7 %   |
| 2.         | Empirical Capital Asset<br>Pricing Model (1)   | 10.9_%                         | <u>11.1</u> %  |
| 3.         | Conclusion                                     | 10.7 %                         | 10.9 %   |

Notes: (1) From page 2 of this Schedule.

## <u>United Utility Companies, Inc.</u> Indicated Common Equity Cost Rate Through Use of the Capital Asset Pricing Model

|  | of the Capital Asse            | C Pricing Woder  |   |
|--|--------------------------------|--|---|
|  | <u>1</u>                       | <u>2</u>   | <u>3</u>  |
|  | Value Line<br>Adjusted<br>Beta | Company-Specific<br>Risk Premium<br>Based on Market<br>Premium of 7.1% (1) | CAPM Result<br>Including<br>Risk-Free<br>Rate of 5.4% (2) |
|  | <u>Tra</u>                     | ditional Capital Asset Pricing Model (3                                    | 1   |
| Proxy Group of Six AUS Utility<br>Reports Water Companies            |                                |  |   |
| American States Water Co.  | 0.70                           | 5.0 %  | 10.4 %  |
| Aqua America, Inc.   | 0.80                           | 5.7  | 11.1  |
| Artesian Resources Corp.   | NA                             | NA .   | NA  |
| California Water Service Group                                       | 0.75                           | 5.3  | 10.7  |
| Middlesex Water Company  | 0.75                           | 5.3  | 10.7  |
| York Water Company   | 0.50                           | 3.6  | 9.0   |
| Average  | 0.70                           | <u>5.0</u> %   | <u>10.4</u> % (4)   |
| Proxy Group of Four Value Line<br>(Standard Edition) Water Companies |                                | 50 %   | 40.4.00   |
| American States Water Co.  | 0.70                           | 5.0 %<br>5.7   | 10.4 <b>%</b><br>11.1                                     |
| Aqua America, Inc.   | 0.80<br>0.75                   | 5.7<br>5.3   | 10.7  |
| California Water Service Group<br>Southwest Water Company            | 0.75<br>0.70                   | 5.3<br>5.0   | 10.7  |
| Average  | 0.74                           | 5.3 %  | 10.7 % (4)  |
|  | <u>Er</u>                      | npirical Capital Asset Pricing Model (5                                    | 1   |
| Proxy Group of Six AUS Utility<br>Reports Water Companies            |                                |  |   |
| American States Water Co.  | 0.70                           | 5.5 %  | 10.9 %  |
| Aqua America, Inc.   | 0.80                           | 6.0  | 11.4  |
| Artesian Resources Corp.   | NA<br>2.77                     | NA<br>5.0  | NA<br>11.2  |
| California Water Service Group                                       | 0.75                           | 5.8<br>5.8   | 11.2  |
| Middlesex Water Company  | 0.75<br>0.50                   | 5.6<br>4.4   | 9.8   |
| York Water Company   |                                | ····   |   |
| Average  | 0.70                           | <u>5.5</u> %   | <u>10.9</u> % (4)   |
| Proxy Group of Four Value Line (Standard Edition) Water Companies    |                                |  |   |
| American States Water Co.  | 0.70                           | 5.5 %  | 10.9 %  |
| Aqua America, Inc.   | 0.80                           | 6.0  | 11.4  |
| California Water Service Group                                       | 0.75                           | 5.8  | 11.2  |
| Southwest Water Company  | 0.70                           | <u> </u>   | <u>10.9</u>   |
|  | 0.74                           | <u>5.7</u> %   | 11.1 % (4)  |
|  |                                |  |   |

See page 3 for notes.

### United Utility Companies, Inc. Development of the Market-Required Rate of Return on Common Equity Using

the Capital Asset Pricing Model for the Proxy Group of Six AUS Utility Reports Water Companies and the Proxy Group of Four Value Line (Standard Edition) Water Companies Adjusted to Reflect a Forecasted Risk-Free Rate and Market Return

#### Notes:

From the three previous month-end (Apr. '06 - Jun. '06), as well as a recently available (Jul. 7, 2006), (1)Value Line Summary & Index, a forecasted 3-5 year total annual market return of 12.5% can be derived by averaging the 3-month and spot forecasted total 3-5 year total appreciation, converting it into an annual market appreciation and adding the Value Line average forecasted annual dividend yield.

The 3-5 year average total market appreciation of 51% produces a four-year average annual return of 10.85% ( $(1.51^{.25})$  - 1). When the average annual forecasted dividend yield of 1.65% is added, a total average market return of 12.50% (1.65% + 10.85%).

The 3-month and spot forecasted total market return of 12.5% minus the risk-free rate of 5.4% (developed in Note 2) is 7.1% (12.5% - 5.4%). The Ibbotson Associates calculated market premium of 7.1% for the period 1926-2005 results from a total market return of 12.3% less the average income return on long-term U.S. Government Securities of 5.2% (12.3% - 5.2% = 7.1%). This is then averaged with the 7.1% Value Line market premium resulting in a 7.1% market premium. The 7.1% market premium is then multiplied by the beta in column 1 of page 2 of this Schedule.

Average forecast based upon six quarterly estimates of 30-year Treasury Note yields per the consensus of nearly 50 economists reported in the <u>Blue Chip Financial Forecasts</u> dated July 1, 2006 (see page 7 of (2)Schedule PMA-10.) The estimates are detailed below:

|                     | 30-Year             |
|---------------------|---------------------|
|                     | Treasury Note Yield |
| Third Quarter 2006  | 5.3%                |
| Fourth Quarter 2006 | 5.4                 |
| First Quarter 2007  | 5.4                 |
| Second Quarter 2007 | 5.4                 |
| Third Quarter 2007  | 5.4                 |
| Fourth Quarter 2007 | <u>5.3</u>          |
| Average             | <u>5.4</u> %        |
|                     |                     |

00.17

(3) The traditional Capital Asset Pricing Model (CAPM) is applied using the following formula:

$$R_s = R_F + \beta (R_M - R_F)$$

Where R<sub>s</sub> = Return rate of common stock

R<sub>F</sub> = Risk Free Rate

β = Value Line Adjusted Beta

R<sub>M</sub> = Return on the market as a whole

- Includes only those indicated common equity cost rates which are above 8.8%, i.e., 200 basis points (4) above the prospective yield of 6.8% on A rated Moody's public utility bonds (page 1 of Schedule PMA-
- The empirical CAPM is applied using the following formula: (5)

$$R_S = R_F + .25 (R_M - R_F) + .75 \beta (R_M - R_F)$$

Where Rs = Return rate of common stock

R<sub>F</sub> = Risk-Free Rate

β = Value Line Adjusted Beta

R<sub>M</sub> = Return on the market as a whole

Source of Information:

Value Line Summary & Index

Blue Chip Financial Forecasts, July 1, 2006
Value Line Investment Survey, April 28, 2006, Standard Edition and Small and Mid-Cap Edition

Stocks, Bonds, Bills and Inflation - Valuation Edition 2006 Yearbook,

Ibbotson Associates, Inc., Chicago, IL

|   |                  |              | for a P    | roxy Group of N<br>Proxy Group of | Comparable Earling Atlahyis for a Proxy Group of Mnesy-Nine Non-Utility Companies Comparable to the Froxy Group of Sk. AUS. Utility. Reports Water Companies Rain of | Analysis<br>Companies C | omparable<br>manies (1) | to the         | <br>                | in months         | trow ten using        | e to the<br> }<br> }<br> station Review Common Finite\ Net Worth or Partnere\ Canibal | 7            |                          |
|---|------------------|--------------|------------|-----------------------------------|--|-------------------------|-------------------------|----------------|---------------------|-------------------|-----------------------|---|--------------|--------------------------|
| Proxy Group of Ninety-Nine Non-Litting        | 4                | <u> </u>     | Error      | Standard                          |  |                         |                         | 5              |                     |                   | 5-year                | 5-year Average (2)  |              | 5-Year Projected (3)     |
| AUS Utility Reports Water Companies (1)       | Beta             | Beta         | Regression | of Beta                           | 2001   | 2002                    | 2003                    | 2004           | ×                   | 2005              | Percent               | Student's<br>T-Statistic  | Percent      | Student's<br>T-Statistic |
| 21st Céntury fre. Group<br>ABM Industries fre | 0.90             | 0.82         | 3.4218     | 0.1014                            | 3.7 %  | 7.4 %                   | 50.0                    | æ              | %<br>80.00<br>80.00 | 8.01              | 0.0                   | (0.89)  |              |                          |
| Abbott Labs.                                  | 0.85             | 0.73         | 3.0815     | 0.0913                            | 32.5   | 30.4                    | 26.8                    | 7              | 9 9                 | 27.1              | 28.7                  | 0.76  | 22.5         | 1.12                     |
| Allergan Inc.                                 | 9<br>9<br>9<br>9 | 0.75         | 3.3913     | 0.0877                            | 12.7   | 12.9                    | 14.B<br>42.4            | — m            | 7.3                 | 16.3              | 5. 15.<br>5. 15.      | (0.36)  | 17.0         | 0.16                     |
| Alliant Techsystems Alter Carbei Com          | 0.75             | 0.62         | 3.7204     | 0.1103                            |  | 27.0                    | 58.9                    | . 64 -         | 22.4                | 24.5              | 23.6                  | 0.39  | 13.0         | (0.54)                   |
| Afria Group                                   | 0.09             | 0.68         | 3.2823     | 0.0973                            | 14.8<br>43.6   | 14.7<br>48.3            | 36.7                    | ~ ∂            | 9 1-                | 33.3<br>29.9      | 37.8                  | (0.15)  | 26.5         | 0.95                     |
| AmericoBergen                                 | 0.75             | 0.62         | 3.7007     | 0.1121                            | 6.9  | 10.8                    | 11.2                    | . = .          | 60                  | 8.3               |                       |   | 8.5          | (1.16)                   |
| Amgen<br>Amaly Mortgage Mgmt.                 | 0.89.0<br>2.89.0 | 0.73         | 3.6397     | 0.1079                            | 24.6<br>13.8   | 20.3                    | 11.7                    |                | 0,0                 | 18.1              | 13.55<br>6.51<br>6.52 | (0.28)  | 20.5<br>16.5 | 0.77                     |
| Apache Corp.                                  | 0.90             | 79.0         | 3.7404     | 0.1108                            | 17.3   | 1.5                     | 19.1                    | 7              | 4                   | 24.9              | 18.6                  | (0.02)  | 0.6          | (1.25)                   |
| Apriz nearmoare<br>Archer Daniels Midf        | 0.75             | 0.62         | 3.7381     | 0.1108                            | 30.2<br>6.1  | 4.62                    | 31.7                    | ~ -            | <b>49</b> 1-        | 25.6<br>10.9      | 29.1                  | 9. G  | 14.0         | (0.37)                   |
| Arrow Inti                                    | 0.65             | 0.46         | 3.1531     | 0.0934                            | 14.3   | 13.1                    | 13.3                    | -              | · 60                | 8.3               | 12.3                  | (0.54)  | 11.0         | (0.89)                   |
| Bard (C.R.)                                   | 0.00             | 0.65         | 3.2079     | 0.0951                            | 21.0   | 32.3                    | 29.4                    | 2 +            | 27.7                | 8. k              | 29.0                  | 0.83  | 20.5         | 7.0                      |
| Barnes Group                                  | 0.9              | 0.77         | 3.4404     | 0.1020                            | 9.6  | 13.0                    | 10.3                    | : #            | , 49                | 13.5              | 1.1                   | (0.61)  | 13.5         | (0.46)                   |
| Biomet<br>Bloth Inc                           | 0.75             | 0.60         | 3.5298     | 0.1046                            | 17.2   | 20.4                    | 22.3                    | 24.5           | ın c                | 24.8              | 21.4                  | 0.20  | 22.5         | 1.12                     |
| Bob Evans Farms                               | 0.85             | 0.75         | 3.3680     | 0.0998                            | 12.5   | 4.6                     | 0, 1                    | <u>.</u>       | 9 h                 | 12.2<br>6.5 F     | 2.0                   | (0.21)  | 12.5         | (0.63)                   |
| Brown & Brown                                 | 0.85             | 77.0         | 3.6516     | 0.1082                            | 30.8   | 21.2                    | 22.2                    | *              | 90                  |                   | .,                    | 0.33  | 16.5         | 0.07                     |
| Sucore (Tre)inc.<br>Casev's Gen'l Stores      | 0.90             | 0.83         | 3,5935     | 0.1065                            | 14.1   | 12.1                    | ±                       | ₩.             | o +                 | 17.3              | 9.6                   | (0.43)  | en C         | (1.16)                   |
| Choice Point Inc.                             | 0.90             | 0.83         | 3.4396     | 0.1019                            | 16.3   | . E                     | 16.1                    | " <del>"</del> | - o                 |                   | Ī                     | (0.20)  | 13.5         | (0.46)                   |
| Church & Dwight                               | 0.60             | 0.37         | 3.1342     | 0.0929                            | 19.1   | 19.4                    | 17.9                    | # 1            | 15.9                | 17.6              |                       |   | 13.5         |                          |
| Com Products (mt)                             | 0.85             | 0.73         | 3.3261     | 0.0986                            | 38.5   | 97.0                    | 0 6<br>0 6              | 3, -           | 8.5<br>8.7          | 7.5               | , 1.84<br>7.7         | (4) 2.23  | 38.0 (4)     |                          |
| Costco Wholesale                              | 0.85             | 0.76         | 3.4388     | 0.1019                            | 12.3   | 12.3                    | 11.0                    | Ξ              | 11.6                | Ξ                 | 11.7                  | (0.59)  | 11.0         | (0.89)                   |
| Curise-vinga<br>Davie Inc.                    | 0.80             | 9.0          | 3.4317     | 0.1017                            | 11.6<br>5 5 5  | 10.5                    | 10.9                    | 1.3            | 1.3<br>6.4          | 2. 1.8<br>2. 4    | 11.1                  |   | 12.0         | (0.72)                   |
| Del Monte Foods                               | 0.70             | 0.53         | 3.3016     | 0.0978                            | 200.8  | 1.4                     | 16.6                    | ==             | 12.6                | 12.5 E            | 51.3                  | (4) 2.68  | 11.0         | (0.89)                   |
| Dionex Corp.<br>FSCO Technologies             | 86.6             | 0.76         | 3.1433     | 0.0931                            | 24.5   | 21.0                    | 19.7                    | 22.6           | <b>6</b> 0,0        | 24.9              | 22.5                  | 0.30  | 22.0         | 1.04                     |
| Edwards Lifesciences                          | 0.75             | 0.61         | 3,2003     | 0.0948                            | 13.7   | 15.4                    | 15.0                    | 2 %            | 16.6                | 13.2              | 15.8                  | (0.75)<br>(0.25)  | 6.0<br>6.0   | (0.11)                   |
| Energizer Holdings                            | 0.80             | 9.08         | 3.4767     | 0.1030                            | 13.2   | 26.4                    | 21.0                    | 4              | rú .                | 63.2              | 33.9                  | 1.23  | 22.5         | 1.12                     |
| Farmie Mae                                    | 9<br>9<br>9<br>9 | 0.75         | 3.5930     | 0.0864                            | 23.5<br>29.6   | 38.5                    | 31.7                    | # #<br>#       | 19.3<br>76.0 F      | 21.6<br>21.5<br>7 | 21.0                  | 0.17  | 23.0         | 1.21                     |
| Fisher Scientific                             | 0.90             | 78.          | 3.3061     | 0.0980                            | 235.6  | 72.4                    | 24.8                    | , •            |                     |                   |                       | (4) 4.16  | . E          | (0.69)                   |
| Gallagher (Arthur J.)<br>Geoff Donamics       | 0.90             | 0.80         | 3.2558     | 0.0965                            | 33.7   | 26.5                    | 26.7                    | 7,             | <b>a</b> 0          | 22.4              |                       |   | 20.0         | 0.68                     |
| HCA Inc.                                      | 0.65             | 0.40         | 3.7321     | 0.1106                            | 21.8   | 21.9                    | 21.5                    | 28.3           |                     | 29.3              | 24.6                  | 0.47  | 18.5         | 0.42                     |
| HNI Corp.                                     | 0.80             | 0.67         | 2.8977     | 0.0859                            | 15.2   | 4.4                     | 13.8                    | 4:             | <del>-</del> 1      | 23.6              | 16.8                  | (0.17)  | 18.0         | 0.33                     |
| Harland (John H.)                             | 0.75             | 0.55         | 3.5258     | 0.1045                            | 19.3   | 22.4                    | 21.9                    | 20.1           | o 4-                | 23.7              | 21.5                  | 0.80)   | 15.0         | (0.19)                   |
| Health Mgmt, Assoc.                           | 0.75             | 0.55         | 3.5234     | 0.1044                            | 15.6   | 18.3                    | 17.3                    | <b>₽</b> ;     | 4 (                 | 15.4              | 16.6                  | (0.19)  | 14.5         | (0.28)                   |
| Interactive Data                              | 0.90             | 0.79         | 2.9367     | 0.0870                            | 0.7  | 9.2                     | 4. Q                    | <u>.</u>       | D 4                 | 11.0              | . 9<br>. 9<br>. 0     | (0.23)  | 6. E.        | (0.81)                   |
| Invacare Corp.<br>Ketwood Co                  | 9.82             | 0.71         | 3.2005     | 0.0848                            | 15.8   | 13.5                    | 11.6                    | 0.0            | 01                  | 7.2               | 11.6                  | (0.60)  | 10.5         | (0.88)                   |
| Kimball Int 1 '8'                             | 0.80             | 0.67         | 3.6232     | 0.1074                            | 9.2  | 5. 6.                   |                         | 5.0            | . 0                 | . 4<br>. 6        | 5.0                   | (0.90)<br>(1.14)  | 10.5         | (0.98)                   |
| Kohl's Corp.<br>Lance Inc.                    | 0.90             | 0.78         | 3.7392     | 0.1090                            | 17.8   | 18.3                    | 14.5                    | 14.7           | ~ 4                 | 14.1              | 15.8                  | (0.25)  | 16.5         | 0.07                     |
| Lauder (Estee)                                | 96.0             | 0.82         | 3.3402     | 0.0880                            | 20.3   | 15.8                    | 18.7                    | 2 !            | · -                 | 25.6              | 20.4                  | 0.12  | 35.0 (4)     | 3.32                     |
| LMy (EN)<br>Lincoin Elec Hidgs.               | 0.90             | 0.76<br>0.83 | 3.0488     | 0.0903                            | 42.4   | 32.7                    | 28.6                    | 28 7           | - «                 | 29.1              | 32.2<br>15.6          | 1.09  |              | 2.00                     |
| Lockheed Martin                               | 0.70             | 0.52         | 2.8876     | 0.0885                            | 10.0   | 18.0                    | 15.6                    | 18.0           |                     | 21.8              | 16.8                  | (0.17)  | 20.5         | 0.77                     |
| MacDermid Inc.<br>Manor Care                  | 06 G             | 0.80         | 3.4519     | 0.1023                            | ±.00.00<br>±.00  | 17.0                    | 20.3                    | 17.5           | ю <del>-</del>      | 45.1<br>20.8      | 15.8                  | (0.25)  | 16.5         | 0.07                     |
| Mattel Inc.                                   | 0.75             | 0.62         | 3,3284     | 0.0986                            | 20.5   | 24.6                    | 24.9                    | 21.3           |                     | 23.1              | 22.8                  | 0.33  | 22.0         | 1.04                     |
| mattnews IR:<br>Medco Heath Solutions         | 0.66             | 0.71         | 3.4195     | 0.1013                            | 21.0   | 21.1<br>5.4             | 17.5<br>8.4             | 0.85<br>4.60   | D 4                 | 17.9<br>7.8       | 19.<br>19.9<br>19.8   | 0.02  | 14.5         | (0.28)                   |
| Meditoric Inc.<br>NIKE Inc. '8'               | 0.70             | 0.54         | 2.9656     | 0.0879                            | 23.0   | 21.8                    | 22.0                    | 21.7           | ٨.                  | 28.6              | 23.4                  | 0.37  | 23.0         | 1.21                     |
| Newel Rubbermaid                              | 0.00             | 18.0         | 3.3105     | 0.0981                            | 13.1   | 20.5                    | 20.2                    | * <del> </del> |                     | 25.8              | 20.2                  | 0.0   | 22.5         | 1.12                     |
| NorthYop Grunman                              | 0.70             | E. O         | 3.0038     | 0.0890                            | ro<br>ro   | 4.<br>86                | 8.                      | so:            | _                   | 7.4               | 5,8                   | (1.07)  | 12.0         | (0.72)                   |

|  |      |            | for a F    | Comparable Earthing Adalysis for a Proxy Group of Mnety-Nine Non-Utility Companies Comparable to the Proxy Group of Six AUS Utility Reports Water Companies (1) | Comparable Earnings Analysis<br>Ninety-Nine Non-Utility Compan<br>(Six AUS Utility Reports Water | Comparable Earnings Analysis<br>roxy Group of Ninety-Nine Non-Utility Comparies Comparable<br>Proxy Group of Six AUS Utility, Reports Water Comparables (1) | omparable to the parable to the parable to the parable (1) | 9 7           | o de la companya de l | And the Control of th | e to the<br>Base of Better on Book Common Couler, Net Worth or Bashaser, Cashal | 7        |             |
|--|------|------------|------------|---|--|---|--|---------------|--|--|---|----------|-------------|
| Proxy Group of Ninety-Mine Non-Littley   |      |            | Fire       | Crandary.   |  |   | Male   | TO CHARLES OF | DOOK COMMISSING  | Aunt Act word  | verson (2)  |          | months (2)  |
| Comparies Comparable to the Proxy Group of Six   | Adi  | Unadi      | of the     | Deviation   |  |   |  |               |  | 2,000  | Student's   |          | Student's   |
| AUS Litility Reports Water Companies (1)   | Beta | Beta       | Regression | of Beta   | 2001   | 2002  | 2003   | 2004          | 2005   | Percent  | T-Statistic   | Percent  | T-Statistic |
| OSI Restaurant Partners  | 0.90 | 0.84       | 3.0631     | 0.0908  | 15.0   | 15.6  | 16.9   | 14.5          | 13.5   | 15.1   | (0.31)  | 15.0     | (0.19)      |
| Oshkosh Truck  | 0.90 | 0.78       | 3.6852     | 0.1092  | 14.7   | 14.5  | 14.6   | 17.7          | 19.6   | 16.2   | (0.22)  | 15.5     | (1,0)       |
| Owens & Minor  | 8.0  | 0.82       | 3.2455     | 0.0962  | 15.8   | 18.1  | 13.1   | 13.1          | 13.0   | 14.6   | (0.35)  | 14.0     | (0.37)      |
| Pacific Cap. Bancorp   | 99.0 | 0.77       | 3.1809     | 0.0943  | 17.2   | 20.2  | 19.0   | 19.1          | 15.5   | 18.2   | (0.06)  | 0.6      | (1.42)      |
| Department of the control of the con | 0.80 | 9.0        | 3.1180     | 0.0824  | 90.0   | 24.5  | 7.17   | 18.7          | 17.7   | 18.7   | (0.02)  | 16.5     | 0.07        |
| Peosi Bottling Group   | 0.80 | 690        | 3.7267     | 0.1104  | 14.5   | 4.60  | 23.0   | 3.6           | 73.6   | , 7<br>, 7   | 0.74<br>7.0   | 23.0     | (0.02)      |
| PeostAmericas Inc.   | 0.80 | 990        | 2 9129     | 0.0863  |  | 6.5.0   | \$ 0<br>0  | 10.8          | 12.0   | B C 0  | 0.25  | 10.0     | 06.0        |
| Quest Diagnostics  | 0.90 | 0.78       | 3.5547     | 0.1053  | 14.  | 18.1  | 18.2   | 22.2          | 19.0   | . 60   | (0.03)  | 17.5     | 0.36)       |
| RLI Corp.  | 0.75 | 0.58       | 3.0417     | 0.0901  | 0.6  | 4.8   | 10.6   | 10.3          | 14.0   | 10.5   | (0,69)  | 11.0     | (0.89)      |
| Ralcorp Holdings   | 0.55 | 0.28       | 3.3832     | 0.1003  | 6.6  | 12.3  | 13.0   | 15.0          | 13.8   | 12.8   | (0.50)  | 12.5     | (0.63)      |
| Raytheon Co.   | 0.80 | 99.0       | 3.6948     | 0.1095  | 4.0  | 6.8   | 5.3  | 6.0           | 8.8  | 9.9  | (101)   | 12.0     | (0.72)      |
| Regis Corp.  | 0.90 | 0.83       | 3.4202     | 0.1014  | 15.6   | 15.8  | 15.4   | 15.3          | 13.6   | 15.1   | (0.31)  | 13.0     | (0.54)      |
| Ruddick Corp.  | 0.85 | 0.77       | 2.9323     | 0.0869  | 10.8   | 12.3  | 12.1   | 11.8          | 1.3  | 11.7   | (0.59)  | 12.0     | (0.72)      |
| Schein (Henry)   | 0.80 | 0.63       | 3.6974     | 0.1096  | 12.8   | 13.7  | 13.9   | 12.3          | 13.2   | 13.2   | (0.47)  | 16.0     | (0.02)      |
| Section Tillacia-Gro   | 9 6  | <b>3</b> 6 | 7778.7     | 0.0866  | 3.1  | 17.0  | 14.3   | e; :          | 89.6   | = :  | (0.64)  | 15.0     | (0.19)      |
| Consider Legist.   | 28.0 | 9 6        | 3.1030     | 0.0857  | 15.1   | 76.2  | 13.4   | 17.5          | or i   | 13.1   | (0.48)  | 10 i     | (1.16)      |
| Spatial Foods  | 28.0 | 0.72       | 3,8151     | 0.084   | 4 4  | 9.0   | 4 .  | 4.7           | 17.1   | 6.6  | (0.28)  | 1. c.    | 0.42        |
| Strucker (J.M.)  | 0.70 | 0.50       | 3.0639     | 0.0908  |  | 9 6   |  |               | 2 d  | 7 0  | (0.75)  | 5.5      | (1.07)      |
| Sonie Corp.  | 0.70 | 0.51       | 3,5957     | 0.1066  | 19.4   | 20.7  | 19.7   | 18.8          |  | 9.6  | 0.08  | 15.0     | (6.0)       |
| Speedway Motorsports   | 0.75 | 0.58       | 3.1447     | 0.0832  | 12.9   | 12.5  | 12.4   | 12.7          | <b>4</b>   | 12.9   | (0.49)  | 11.5     | (0.81)      |
| Stryker Corp.  | 0.80 | 9.0        | 3.1797     | 0.0942  | 25.7   | 23.8  | 21.0   | 21.3          | 22.1   | 22.8   | 0.32  | 25.0     | 1.56        |
| Thomburg Mtg.  | 0.75 | 0.62       | 3.1900     | 0.0945  | 11.0   | 14.4  | 14.2   | 13.0          | 12.8   | 13.1   | (0.48)  | 12.0     | (0.72)      |
| Topps Co.  | 28.0 | 18.0       | 3.6416     | 0.10/9  | 14.7   | 9.9   | 0.0  | o,            | 2.6  | 7.6  | (0.83)  |          |             |
| - 1010 (101)<br>- 1014 (101)   | D 40 | 9.0        | 2.2/80     | 0.0083  | 8, 1   | 17.4  | 18.5   | 28.0          | 28.2   | 21.2   | 0.19  | 33.0 (4) |             |
| Varian Madical Sta   | 0.00 | 4.0        | 3.2053     | 0.0830  | 23.5   | 30.5  | 35.6   | 7 E           | 18.6<br>0.10   | 26.5   | 0.62  |          |             |
| Wahter Dan   | 60.0 | 77.0       | 3.7007     | 0.1080  | 7/2  | D 0   | 23.2   | 57.3          | 31.3   | 23.8   | 0,40  | 23.5     | 1.30        |
| Waldreen Co.   | 0.80 | 990        | 2.9588     | 0.0877  | - r  |   | 9 4<br>5 4   |               | 13.2   | 0.01   | (0.69)  | 2.0      | (0.02)      |
| Wendy's Int'l  | 0.75 | 0.55       | 3.3108     | 0.0981  | 18.8   | £ 6   | 13.4   | 13.6          | 12.0   | 2.4  | (5:3)   | -        | 5.0         |
| West Pharmac. Svcs.  | 0.75 | 0.61       | 3.7551     | 0.1113  | 11.8   | 6.4   | 10.6   | 13.6          | 13.6   | 11.2   | (0.63)  | 6.4      | (0.28)      |
| Zimmer Holdings  | 0.75 | 0.61       | 3.6316     | 0.1100  | 242.4  | 70.4  | 8.3  | 15.2          | 16.5   | 70.8   | (4) 4.25  | 14.5     | (0.28)      |
| Average for the Non-Utility Group  | 0.82 | 0.69       | 3.3489     | 0.1005  |  |   |  |               |  |  |   |          |             |
| Average for the Proxy Group of Six   | Ş    | i          |            |   |  |   |  |               |  |  |   |          |             |
| DOC CIRIO Reports water Companies  | 7/10 | \$         | 3.3355 (5) | BBBOO   |  |   |  |               |  |  |   |          |             |
| Mean   |      |            |            |   |  |   |  |               |  | 16.7%  |   | 15.3%    |             |
| :  |      |            |            |   |  |   |  |               |  |  |   |          |             |
| Conclusion (6)   |      |            |            |   |  |   |  |               |  |  | 16.0% (6)   |          |             |
| Conservative Mean (7)  |      |            |            |   |  |   |  |               |  | 14.2%  |   | 13.6%    |             |
| Conservative Conclusion (8)  |      |            |            |   |  |   |  |               |  |  | 13.9%   |          |             |
|  |      |            |            |   |  |   |  |               |  |  | ł   |          |             |
| See pages 5 and 6 for notes.   |      |            |            |   |  |   |  |               |  |  |   |          |             |
|  |      |            |            |   |  |   |  |               |  |  |   |          |             |

| Control Cont |  |             |              | Standard        | Proxy Group of Four Value Line (Standard Edition) Water Companies (8)<br>Rate of F | alue Line (Standa | CO EGRICIO AVA |            | Rate of F | eturn on B   | ook Comm     | on Equi | y, Net Worth      | or Partners' Ca        |              |              |                |
|--|--|-------------|--------------|-----------------|--|-------------------|----------------|------------|-----------|--------------|--------------|---------|-------------------|------------------------|--------------|--------------|----------------|
| Column   C | Proxy Group of One Hundred Non-Utility Companies Comparable to the Proxy Group of Four | Ą           | Chad.        | Error<br>of the | Standard<br>Deviation  |                   |                |            |           |              |              | '       | 5-year A          | erage (2)<br>Student's |              | Projected (3 | ent's          |
|  | Value Line (Standard Edition) Water Companies (9)                                      | Beta        | Beta         | Regression      | of Beta  |                   | 2002           | ×          | 1         | 2004         | 2005         |         | Percent           | T-Statistic            | P            | 1            | tistic         |
|  | 21st Century Ins. Group<br>ABM Industriale Inc   | 8.5         | 0.82         | 3.4218          | 0.1014   | -                 | 4.7            |            |           |              | 6.0<br>8.0   | ×       |                   |                        | 9.5          | æ            | (0.29)         |
|  | Abbott Labs.   | 0.85        | 0.73         | 3.0815          | 0.0913   | 32.5              | 30.4           | 78         |           | 24.6         | 27.1         |         | 28.2              | 0.75                   | 22.5         |              | 1.07           |
|  | Affac inc.<br>Affactabline   | 0.80        | 0.79         | 3.3913          | 0.0877   | 12.7              | 12.8           | 4. 54      |           | 15.7         | 16.3<br>28.9 |         | 31.5              | (0.38)<br>0.99         | 17.0         |              | (0.03)         |
|  | Alted Capital Corp.  | 0.85        | 0.73         | 3.2345          | 0.0859   | 4.8               | 14.7           | 5          |           | 12.6         | 33.3         |         |                   |                        | 21.5         |              | 0.80           |
| ### ### ### ### ### ### ### ### ### ##   | Aktia Group<br>Anadogos Detroloum  | 0.80        | 0.68         | 3.2823          | 0.0973   | 43.6<br>8.05      | 48.3           | 36.        |           | 30.7         | 29.9         |         |                   |                        | 28.5         |              | 1.75           |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | Analy Mortgage Mant.   | 0.85        | 0.73         | 3.6397          | 0.1079   | 13.8              | 20.3           | 9          |           | 1.4          | 6.4          |         | 13.9              | (0.43)                 | 16.5         |              | 0.05           |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | Archer Daniels Midl'd  | 0.75        | 0.62         | 3.2698          | 0.0969   | 6.1               | 8.6            | 9          |           | 9.7          | 6.0          |         | 6.7.              | (0.92)                 | 12.5         |              | (0.63)         |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | Arrow fut1   | 69.0        | 0.46         | 3.1531          | 0.0934   | 14.3<br>0.10      | 13.1           | 5 6        |           | 12.5         | 8.3          |         | 12.3              | (0:00)<br>(0:00)       | 20.5         |              | (0.88)<br>0.73 |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | Bard (C.R.)  | 0.90        | 0.65         | 2.9666          | 0.0879   | 18.2              | 3.5            | . E        |           | 18.3         | 21.3         |         | 19.7              | 0.05                   | 21.5         |              | 8 6            |
| The color of the | Barnes Group   | 0.90        | 0.77         | 3.4404          | 0.1020   | e (               | 13.0           | 9 6        |           | 10.8         | 13.5         |         | 4.1.              | (0.63)                 | 13.5         |              | (0.46)         |
| 0.05   | Biomer<br>Biyth Inc.   | 0.85        | 0.71         | 3.3917          | 0.1005   | 16.5              | 16.9           | 17.        |           | 19.0         | 12.2         |         | 16.3              | (0.23)                 | 12.5         |              | (0.63)         |
| . 1  | Bob Evans Farms  | 0.85        | 0.75         | 3.3680          | 0.0998   | 12.5              | 13.4           | ÷ i        |           | 5.7          | 6.5          | w       | 8.6               | (0.75)                 | 10.5         |              | (0.97)         |
| 1,000,   1 | Brown & Brown<br>Bunda (Traylor  | 98.0        | 0.7          | 3.6516          | 0.1082   | 30.8              | 21.2           | 7 -        |           | 20.6         | 18.7         |         | 13.6              | 0.51                   | C. 6.        |              | 5 <del>5</del> |
| 1,00,000   | C.H. Robinson  | 0.95        | 88.0         | 3.1237          | 0.0826   | 23.6              | 22.6           | 22         | _         | 22.1         | 26.1         |         | 23.3              | <b>8</b>               | 16.5         |              | 0.08           |
| 1,000, 0,000,  | Casey's Gen'l Stores   | 0.85        | 0.76         | 3.4827          | 0.1035   | 9.6               | 60 ·           | 80         | _         | 9.1          | 11.5         | ш       | 6.5               | (0.79)                 | 12.0         |              | (5.7)          |
| Dec.   Colored   March   March | Charch & Dwight  | 0.90        | 0.83         | 3.1342          | 0.0929   | 16.3              | 1.05           | 10.        |           |              | 16.0         |         | č, 6<br>0, 6      | (0.09)                 | 13.5         |              | (0.46)         |
| 0.05   | Coca-Cola Botting  | 0.70        | 0.49         | 3.2237          | 0.0955   | 38.5              | 0.69           | 98         |           | 33.9         | 30.5         |         |                   |                        | 36.0         |              | 3.36           |
| 0.00         0.64 <th< td=""><td>Com Products Int's</td><td>0.83</td><td>0.73<br/>87.0</td><td>3.3261</td><td>0.0966</td><td>. c</td><td>7.6</td><td>80 -</td><td></td><td>7.8</td><td>7</td><td></td><td>1.7</td><td>(0.93)</td><td>10.5</td><td></td><td>(0.97)</td></th<>   | Com Products Int's   | 0.83        | 0.73<br>87.0 | 3.3261          | 0.0966   | . c               | 7.6            | 80 -       |           | 7.8          | 7            |         | 1.7               | (0.93)                 | 10.5         |              | (0.97)         |
| 0.05         0.71         3.5562         0.1055         19.5         21.0         4.15         24.4         6.0         4.16         11.6         1.0  | Curtiss-Wright   | 0.80        | 0.64         | 3,4317          | 0.1017   | 11.6              | 5 5            | 9          |           | 11.3         | 11.8         |         |                   |                        | 12.0         |              | 0.73           |
| Continue   | DaVita Inc.  | 0.85        | 7.0          | 3.5592          | 0.1055   | 19.5              | 210.3          | 53.        |           | 41.5         | 24.4         | u       | <b>.</b>          |                        | 19.5         |              | 0.56           |
| 0.99         0.78         3.443         0.0875         2.45         2.10         18.7         2.26         2.26         0.28         2.20         0.28         2.20         0.28         2.20         0.28         2.20         0.28         0.29         0.77         2.84         2.10         18.4         18.4         18.4         18.4         18.4         18.4         18.5         0.28         0.28         0.29         0.28         0.28         0.29         0.28         0.28         0.29         0.29         0.29         0.28         0.29   | Diebold Inc.   | 0.95        | 0.87         | 3.2070          | 0.0850   | 15.6              | . 9 <u>.</u>   | 15.5       |           | 6.41         | 11.8         |         |                   |                        | 15.5         |              | (0.12)         |
| 1,000,   1 | Dionex Corp.   | 0.90        | 0.79         | 3.1433          | 0.0931   | 24.5              | 21.0           | 18.        |           | 22.6         | 24.9         |         | 22.5              | 0.28                   | 22.0         |              | 0.98           |
| (8)         (8) <td>Donaldson Co.<br/>Ertwarita i Kentences</td> <td>0.95</td> <td>0.88</td> <td>3.2003</td> <td>0.0875</td> <td>23.7</td> <td>15.4</td> <td>21.5</td> <td></td> <td>18.4</td> <td>18.1</td> <td></td> <td>21.6</td> <td>0.20</td> <td>16.5</td> <td></td> <td>9 69</td>   | Donaldson Co.<br>Ertwarita i Kentences   | 0.95        | 0.88         | 3.2003          | 0.0875   | 23.7              | 15.4           | 21.5       |           | 18.4         | 18.1         |         | 21.6              | 0.20                   | 16.5         |              | 9 69           |
| 0.86         0.86         2.86         0.86         3.06         0.86         3.06         0.86         3.06         0.86         3.06         0.86         3.06         0.86         3.06         0.86         3.06         0.86         3.06         0.86         11.5         0.86         11.5         0.86         11.5         0.86         11.5         0.86         11.5         0.86         0.86         11.5         0.86         0.86         0.86         11.5         0.86 <td< td=""><td>Energizer Holdings</td><td>0.80</td><td>0.65</td><td>3.4767</td><td>0.1030</td><td>13.2</td><td>78.4</td><td>21.0</td><td></td><td></td><td>63.2</td><td></td><td>33.9</td><td>1.21</td><td>22.5</td><td></td><td>1.07</td></td<>   | Energizer Holdings   | 0.80        | 0.65         | 3.4767          | 0.1030   | 13.2              | 78.4           | 21.0       |           |              | 63.2         |         | 33.9              | 1.21                   | 22.5         |              | 1.07           |
| 0.00         0.00 <th< td=""><td>Famile Mae</td><td>98.0</td><td>0.7</td><td>2.9166</td><td>0.0864</td><td>29.6</td><td>38.6</td><td>5 6</td><td></td><td></td><td>27.5</td><td>ш</td><td></td><td></td><td>£ £</td><td></td><td>666</td></th<>  | Famile Mae   | 98.0        | 0.7          | 2.9166          | 0.0864   | 29.6              | 38.6           | 5 6        |           |              | 27.5         | ш       |                   |                        | £ £          |              | 666            |
| 0.09         0.08         0.09         0.08         0.09         10.0         14.0 <th< td=""><td>Gallagher (Arthur J.)</td><td>0.90</td><td>88</td><td>3.2558</td><td>0.0965</td><td>33.7</td><td>26.5</td><td>797</td><td></td><td>24.8</td><td>22.4</td><td></td><td></td><td></td><td>20.0</td><td></td><td>96</td></th<>   | Gallagher (Arthur J.)  | 0.90        | 88           | 3.2558          | 0.0965   | 33.7              | 26.5           | 797        |           | 24.8         | 22.4         |         |                   |                        | 20.0         |              | 96             |
| 0.89         0.89         2.63         0.004         11.8         11.4         4.7         4.3         4.1         1.8         9.0         4.2         9.0   | Gen'l Dynamics   | 0.80        | 0.68         | 3.0047          | 0.0890   | 20.8              | 20.7           | 16.6       |           | 16.8         | 18.0         |         | 18.5              | (0.05)                 | 0.45         |              | (0.37)         |
| 0.80         0.67         2.8877         0.0869         15.2         14.1         13.8         17.1         23.6         16.8         16.9         15.0         18.0  | Golden West First  | 0.80        | 0.88         | 2.8572          | 0.0847   | 37.8              | 30.8           | 5.5        | _         | 16.6         | 43.7         |         | 42.1              | 1.89                   |              |              | 3.02           |
| 0.78         0.75         3.004         0.0841         9.7         12.0         12.6         12.5         11.3         11.18         (Ual)         15.0           0.78         0.56         3.624         0.1044         15.6         18.3         17.3         18.4         15.4         16.6         (0.20)         14.5           0.75         0.56         3.624         0.1044         15.6         17.1         18.8         21.6         16.0         10.0         14.5         18.9         17.5         18.8         17.5         18.9         17.5         16.0         10.0         14.5         16.0         10.0         14.5         16.0         10.0         14.5         16.0         10.0         14.5         16.0         10.0         14.5         16.0         16.0         16.0         11.0         17.1         11.0         17.2         14.9         16.0         10.0         14.5         16.0  | HNI Corp.  | 0.80        | 0.67         | 2.8977          | 0.0859   | 15.2              | <b>4</b>       | 13.6       |           | 17.1         | 23.6         |         | 16.8              | (0.19)                 |              |              | 0.31           |
| 0.75         0.56         3.574         0.1044         15.5         14.3         17.5         16.4         15.4         16.6         17.7         18.8         21.1         17.5         16.4         15.4         16.9         16.0         17.7         18.8         21.1         17.5         16.4         15.4         16.9         16.0   | Hancock Holding  | 0.85        | 0.75<br>5.55 | 3.0057          | 0.0891   | 7.60              | 12.0           | 12.6       |           | 12.5         | # £          |         | 2.5               | (0.61)                 | 15.0         |              | 0.20           |
| 0.55         0.56         2.637         0.064         17.7         18.8         21.1         17.5         18.8         21.1         17.5         18.8         18.0         (0.01)         18.0           0.56         0.564         0.564         0.567         0.0047         12.5         11.2         11.1         12.0         14.5         16.3         16.3         16.0           0.70         0.54         2.5425         0.0047         0.07         0.7         15.8         17.1         15.0         14.7         16.3         16.1         10.4         11.0           0.80         0.77         2.005         0.07         0.007 <t< td=""><td>Health Month, Assoc.</td><td>0.75</td><td>0.55</td><td>3.5234</td><td>0.1044</td><td>15.6</td><td>18.3</td><td>17.3</td><td></td><td>16.4</td><td>15.4</td><td></td><td>16.6</td><td>(0.20)</td><td>6.4</td><td></td><td>(0.29)</td></t<>   | Health Month, Assoc.   | 0.75        | 0.55         | 3.5234          | 0.1044   | 15.6              | 18.3           | 17.3       |           | 16.4         | 15.4         |         | 16.6              | (0.20)                 | 6.4          |              | (0.29)         |
| 0.75         0.89         3.5834         0.1002         1.25         1.13         14.9         16.0         4.13         16.0         4.13         16.0         4.13         16.0         4.13         16.0         4.13         16.0         4.14         (0.45)         16.0           0.70         0.78         2.8425         0.0042         8.5         17.1         15.0         14.7         15.3         14.4         (0.45)         11.0           0.80         0.77         3.2047         0.0048         15.8         13.5         14.5         15.0         14.4         (0.45)         11.0           0.80         0.87         3.2462         0.0048         15.8         13.5         14.5         15.6         11.6         10.0         17.5         11.6         10.4         10.5         10.6         10.6         10.6         11.6         10.0         10.6  | Hillenbrand Inds.  | 0.75        | 0.58<br>0.58 | 2.8377          | 0.0841   | 17.7              | 19.8           | 77.        |           | 17.5         | 18.8         |         | 18.0              | (0.0 <del>1</del> )    | 19.0         |              | 0.3            |
| 0.70         0.54         2.8425         0.0642         8.5         17.1         15.0         14.7         15.3         14.1         (0.41)         11.0           0.80         0.78         2.9367         0.0648         15.8         13.5         14.7         15.3         14.1         (0.41)         11.5           0.80         0.78         2.9367         0.0648         15.8         13.5         14.2         15.0         16.0         7.5         9.1         (0.61)         10.5           0.80         0.84         2.8286         0.0648         16.6         16.3         13.4         13.0         15.7         10.8         9.5         16.6         16.7         10.0         7.5         9.1         (0.61)         10.5         10.5         9.5         10.6         10.5         10.5         10.6  | IDEXX Labs.<br>IHOP Curp.  | 0.95        | 2 8          | 3,3763          | 0.1001   | 12.5              | 13.8           | <b>7</b> - |           | 12.0<br>12.0 | 21.5<br>4.9  |         | 12.4              | (0.55)                 | 16.0         |              | 0.03           |
| 0.50 0.77 2.8847 0.037 0.7 9.2 8.5 8.4 11.0 8.0 (0.81) 11.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0  | int'l Speedway 'A'   | 0.70        | 3            | 2.8425          | 0.0842   | 8.5               | 17.1           | 15.0       |           | 14.7         | 15.3         |         | 14.1              | (0.41)                 | 11.0         |              | (0.88)         |
| 0.80         0.84         2.5462         0.1052         7.8         9.2         11.3         9.7         7.5         9.1         (0.82)         9.5           0.80         0.87         3.6232         0.1052         7.8         9.2         11.3         8.7         7.5         9.1         (0.82)         9.5           0.80         0.84         2.8642         0.1054         8.2         6.8         1.3         5.0         4.5         5.0         (1.16)         10.5           0.80         0.87         2.3402         0.0839         18.6         17.7         21.7         25.6         20.4         0.11         35.0         (1.16)         10.5           0.80         0.82         3.308         0.0999         16.6         17.7         17.7         22.2         1.07         27.5         5.0         (1.16)         1.05         1.05         1.07         27.5         1.07         22.2         1.07         27.5         1.07         27.5         1.07         27.5         1.07         27.5         1.07         27.5         1.07         27.5         1.07         27.5         1.07         27.5         1.07         27.5         1.07         27.5         1.07         2  | interactive Data   | 0.90        | 0.79         | 3.2005          | 0.0870   | 0.7<br>8.8        | 9.2            | 9. =       |           | 4.0          | 11.0         |         | 0.6               | (19.0)                 | 11.5         | _            | (0.80)         |
| 0.80         0.64         2.8226         0.1074         8.2         6.8         1.3         5.0         4.5         5.0         (1.16)         10.5           0.80         0.84         2.826         0.0839         19.6         16.8         1.3         5.0         4.5         5.0         (1.16)         10.5           0.80         0.82         3.3462         0.0890         20.3         15.8         18.7         2.7         2.8         20.4         0.11         35.0         (1.16)         10.5           0.80         0.84         2.3462         0.0899         16.8         17.7         17.3         18.9         17.7         10.7         27.5           0.80         0.84         2.8782         0.0899         16.8         17.7         17.3         15.9         17.7         10.7         27.5           0.80         0.84         2.8782         0.0899         16.8         17.7         17.3         15.9         17.7         10.7         27.5         10.7         27.5         10.7         27.5         10.7         27.5         10.7         27.5         15.9         10.7         27.5         10.7         27.5         10.7         27.5         10.7         <  | Kelwood Co.  | 0.90        | 0.80         | 3.5492          | 0.1052   | 7.8               | 9.7            | =          |           | 5.6          | 7.5          |         | . <del>.</del> 6. | (0.82)                 | 8,8          |              | <u>+</u>       |
| 0.90         0.82         3.340         0.0990         20.3         15.0         15.1         25.2         20.4         0.11         35.0         4)           0.86         0.78         3.048         0.0990         20.3         15.8         28.1         28.1         28.1         20.4         0.11         35.0           0.89         0.78         3.0488         0.0999         18.1         18.2         17.7         17.7         17.7         17.7         10.7         27.5           0.80         0.84         2.878         0.0995         18.1         18.6         17.7         17.7         10.7         27.5           0.90         0.84         2.849         0.16         1.6         17.7         17.3         15.9         17.7         10.1         33.0           0.75         0.82         3.499         0.1023         9.1         17.0         17.5         15.1         15.9         10.7         27.0         20.5         20.4         20.1         16.9         10.7         27.1         15.9         10.7         27.1         10.7         27.1         10.7         27.1         10.7         27.2         10.7         27.2         10.7         27.2         1  | Kimball Int'I '8'  | 0.80        | 0.67         | 3.6232          | 0.1074   | 8.2               | no á<br>eo a   | 1.3        |           | 5.0          | 4.5          |         | 5.0<br>7.7        | (1.16)                 | 10.5         | _            | (0.97)         |
| 0.85         0.76         3.0488         0.0903         4.24         32.7         2.86         2.81         2.81         3.21         1.07         27.5           0.90         0.84         2.8782         0.0989         16.6         17.2         11.7         14.8         17.4         15.6         (0.29)         15.5           0.90         0.84         2.8782         0.0983         18.1         18.0         17.3         15.9         17.7         15.6         (0.19)         15.5           0.70         0.52         2.8976         0.0886         10.8         17.0         20.3         17.5         15.1         15.8         (0.19)         20.5           0.75         0.62         3.4896         0.1013         21.1         17.5         18.0         17.9         18.1         18.2         18.0         17.9         18.1         18.5         18.0         17.9         18.1         18.5         18.1         17.6         18.0         17.9         18.1         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.4 <td>Lauder (Estee)</td> <td>0.90</td> <td>0.82</td> <td>3.3402</td> <td>0.0990</td> <td>20.3</td> <td>15.8</td> <td>18.7</td> <td></td> <td>21.7</td> <td>25.6</td> <td></td> <td>20.4</td> <td>0.11</td> <td></td> <td></td> <td>3.19</td>  | Lauder (Estee)   | 0.90        | 0.82         | 3.3402          | 0.0990   | 20.3              | 15.8           | 18.7       |           | 21.7         | 25.6         |         | 20.4              | 0.11                   |              |              | 3.19           |
| 0.90         0.64         2.5369         0.0993         16.9         17.7         14.9         17.4         17.9         (0.14)         15.3           0.90         0.64         2.6782         0.0963         18.1         18.6         17.7         14.9         17.7         15.9         (0.14)         13.0           0.70         0.52         2.4697         0.0963         18.1         18.0         17.3         15.9         16.3         17.5         15.1         15.8         (0.19)         20.5           0.75         0.62         3.4396         0.1013         21.0         21.1         17.5         18.0         17.9         16.1         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.0         0.31         22.4         0.35         23.0         0.31         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30 <td></td> <td>0.85</td> <td>0.76</td> <td>3.0488</td> <td>0.0903</td> <td>42.4</td> <td>32.7</td> <td>28.6</td> <td></td> <td>28.1</td> <td>29.1</td> <td></td> <td>32.2</td> <td>1.07</td> <td>27.5</td> <td></td> <td>1.92</td>   |  | 0.85        | 0.76         | 3.0488          | 0.0903   | 42.4              | 32.7           | 28.6       |           | 28.1         | 29.1         |         | 32.2              | 1.07                   | 27.5         |              | 1.92           |
| 0.70         0.52         2.8876         0.0865         (0.6         (8.0         15.6         (8.0         21.8         15.9         (6.19)         20.5           0.75         0.80         3.4419         0.1023         9.1         17.0         20.3         17.5         18.1         15.8         (0.19)         20.5           0.75         0.62         3.4496         0.1013         21.0         21.1         17.5         18.0         17.9         19.1         -3.2         0.31         22.0           0.75         0.62         3.4496         0.1013         21.0         21.1         17.5         18.0         17.9         19.1         -3.4         0.35         23.0           0.75         0.85         0.89         3.0006         0.1067         18.1         28.7         20.4         18.5         18.6         17.4         18.5         18.8         20.3         0.10         18.5           0.80         0.80         2.8172         0.0864         16.9         17.4         18.5         18.8         21.5         18.9         7.8         18.1         18.2         18.9         18.5         18.9         18.5         18.9         18.0         18.5         18.9   | Lincoin Elec Hidgs.<br>Liz Claborne  | 36.0<br>6.0 | 3 2          | 2.8782          | 0.0853   | 16.6              | 18.5           | 17.7       |           | 14.8         | 15.9         |         | 17.7              | (0.11)                 | 13.0         |              | 5, 6           |
| 0.00 0.00 3.4489 0.102.3 8.1 17.0 20.3 17.5 15.1 15.8 (0.27) 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5   | Lockheed Martin  | 0.70        | 0.52         | 2.9876          | 0.0885   | 10.8              | 0.0            | 15.6       |           | 18.0         | 21.8         |         | 16.8              | 6.6                    | 20.5         |              | 0.73           |
| 0.75         0.62         3.496         0.1013         21.0         21.1         17.5         18.0         17.9         19.1         -         14.5           0.70         0.54         2.966         0.0679         23.0         21.8         22.0         21.7         28.6         23.4         0.35         23.0           0.80         0.80         2.9172         0.0664         16.9         17.4         18.5         18.8         21.5         18.9         0.00         18.5           0.80         0.80         2.9172         0.0864         16.9         17.4         18.5         18.8         21.5         18.9         (0.02)         15.0           0.80         0.64         2.8224         0.084         1.7         18.4         8.2         8.0         7.8         16.0           0.80         0.64         2.8224         0.084         1.3         20.5         21.6         2.8         20.2         20.9         7.8         0.09         2.2         0.09         2.2         0.09         2.2         0.09         2.2         0.09         2.2         0.09         2.2         0.09         2.2         0.09         2.2         0.09         2.2         0.09   | MacDermid inc.<br>Mattel Inc.  | 0.60        | 0.80         | 3.3284          | 0.0986   | <br>              | 0.71           | 20.3       |           | 2,5          | 73.1         |         | 22.9              | 0.31                   | 22.0         |              | 0.98           |
| 0.70 0.54 2.9656 0.0679 23.0 21.8 22.0 21.7 28.6 23.4 0.35 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0   | Matthews int'  | 0.75        | 0.62         | 3.4195          | 0.1013   | 21.0              | 21.1           | 17.5       |           | 18.0         | 17.9         |         | 19.1              | • ;                    | 14.5         | Ĭ            | 0.29)          |
| 0.90 0.80 2.9172 0.0864 16.9 17.4 18.5 19.8 21.5 18.8 (0.02) 15.0 0.80 0.64 2.8224 0.0338 7.0 7.8 8.1 8.2 8.0 7.8 (0.53) 10.5 0.80 0.84 3.3105 0.0891 13.1 205 20.2 21.8 5.8 20.2 0.09 22.5  | Meditoric inc.   | 0.70        | 0. 0.        | 3.6006          | 0.0879   | 23.0              | 28.7           | 22.0       |           | 21.7<br>16.5 | 28.6<br>16.8 |         | 20.3              | 0.35                   | 23.0<br>19.5 |              | 1.15<br>0.56   |
| 0,80 0,64 2,822,4 0,0039 7,0 7,8 8,1 8,2 8,0 7,8 (0,3) 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5   | NIKE Inc. '8'  | 0.90        | 0.80         | 2.9172          | 0.0864   | 16.9              | 17.4           | 18.5       |           | 19.8         | 21.5         |         | 18.8              | (0.02)                 | 15.0         |              | 0.20           |
| 6.52 80.0 2.02 6.12 2.02 6.12 6.02 6.12 6.02 6.02  | New Plan Excel Rity  | 0.80        | 9.0          | 2.8224          | 0.0836   | 7.0               | 6. £           | æ 5        |           | 8.2          | 0. 5         |         | اب<br>90 ز        | (0.93)                 | 10.5         | •            | 0.97)          |

| United Utility Companies, Inc | Comparable Earnings Analysis | for a Proxy Group of One Hundred Non-Utility Companies Comparable to the | Proxy Group of Four Value Line (Standard Edition) Water Companies (9) | Rate of Return on Book Common Earls |
|-------------------------------|------------------------------|--|---|-------------------------------------|
|                               | •                            | for a Proxy Group of Or  | Proxy Group of Four   | Standard                            |

|   |      |                      | Standard    | Group of Four Vs | the Line (Standa | Proxy Group of Four Value Line (Standard Edition) Water Companies (8). Rate of | Companies (9   | չ<br>of Return on B | ook Common Eq | ales.(৪)<br>Rate of Return on Book Common Equity, Net Worth or Partners' Capital | Partners' Capita |            |                      |
|---|------|----------------------|-------------|------------------|------------------|--|----------------|---------------------|---------------|--|------------------|------------|----------------------|
| Proxy Group of One Hundred Non-Utility            |      |                      | Error       | Standard         |                  |  |                |                     |               | 5-year Average (2)   | age (2)          |            | 5-Year Projected (3) |
| Comparies Comparable to the Proxy Group of Four   | Αď   | Unadj.               | of the      | Deviation        | į                |  | -              | į                   |               |  | Student's        | 1          | Student's            |
| Value Line (Standard Edition) Water Companies (9) | Beta | Beta                 | Regression  | of Beta          | 2001             | 2002   | 2003           | 2004                | 2005          | Percent  | I-Statistic      | Percent    | I-Statistic          |
| Northrop Grumman                                  | 0.70 | 0.51                 | 3.0038      | 0.0890           | 5.5              | 4.8  | 4.8            | 6.4                 | 7.4           | 5.8  | (1.09)           | 12.0       | (0.71)               |
| OSI Restaurant Partners                           | 0.90 | 0.84                 | 3.0631      | 0.0908           | 15.0             | 15.6   | 16.9           | 4.5                 | 13.5          | 12.1   | 0.33             | 15.0       | (0.20)               |
| Owens & Minor                                     | 0.90 | 0.82                 | 3.2455      | 0.0962           | 15.8             | 18.1   | 13.1           | 13.1                | 13.0          | 14.6   | (0.37)           | 0.41       | (0.37)               |
| Pacific Cap. Bancorp                              | 0.85 | 0.77                 | 3.1809      | 0.0843           | 17.2             | 20.2   | 19:0           | <br>                | 5.5           | 18.2   | (9.07)           | . 4<br>. 4 | (8.13)               |
| Pactty Corp.                                      | 0.90 | 9.6<br>18.0          | 3.1186      | 0.0924           | B (              | 24.5   | 7.17           | 7.00                | 7.7           | 19.4   | (0.03)           |            | 60.0                 |
|   | 0.75 | 19.0                 | 3.1545      | 0.0835           | 24.2             | 4.   | 0.52           | 9 9                 | 9.5           | P. 17  | 27.0             | 20.0       | (50.0)               |
| PepsiAmencas Inc.                                 | 08.0 | 0.00                 | 3.5547      | 0.0863           |                  | 9, G   | 2. e.<br>C. e. | 20.00               | 0.4<br>8 6    | . 65   | (0.05)           | 17.5       | 0.22                 |
|   | 25.0 | 9.50<br>9.50<br>9.50 | 3.0417      | 0.0901           | - c              | 7  | 10.6           | 10.3                | 0.4           | 10.5   | (0.70)           | 11.0       | (0.88)               |
| Regis Con   | 0.80 | 0.83                 | 3.4202      | 0.1014           | 5.6              | 15.8   | 15.4           | 15.3                | 13.6          | 15.1   | (0.33)           | 13.0       | (0.54)               |
| Revnolds & Revnolds                               | 0.95 | 0.88                 | 3.1355      | 0.0929           | 20.9             | 25.4   | 26.0           | 19.7                | 22.5 E        | 22.9   | 0.31             | 26.5       | 1.75                 |
| Ruddick Corp.                                     | 0.85 | 0.77                 | 2.9323      | 0.0869           | 10.8             | 12.3   | 12.1           | 11.8                | 11.3          | 11.7   | (0.61)           | 12.0       | (0.71)               |
| Scotts Miracle-Gro                                | 0.90 | 9.0                  | 2.9222      | 0.0866           | 3.1              | 17.0   | 14.3           | 11.5                | 9.8           | 11.1   | (0.66)           | 15.0       | (0.20)               |
| Selective Ins. Group                              | 0.95 | 0.87                 | 3.0277      | 0.0897           | 4.5              | 6.1  | 7.7            | 12.8                | 14.0          | 8.0  | (0.83)           | 14.5       | (0.29)               |
| Sensient Techn.                                   | 0.90 | 0.81                 | 3.1636      | 0.0937           | 15.1             | 16.2   | 13.4           | 1.5                 | 1.            | 13.1   | (0.49)           | 9.5        | (1.14)               |
| Service Master Co.                                | 0.85 | 0.72                 | 2.8575      | 0.0847           | 9.4              | 14.0   | 19.4           | 17.4                |               | 5.5  | (0:30)           | <br>       | 6.0<br>3             |
| Smithfield Foods                                  | 0.85 | 0.75                 | 3.6151      | 0.1071           | 4.4              | 2.0  | 10.1           | 15.7                | 0. e          | 10.2   | (0.73)           | 0.0        | (1.09)<br>(9)        |
| Smucker (J.M.)                                    | 0.70 | 8.0                  | 3.0639      | 90.0908          | 12.2             | e ;  | 0.0            | 6. ¢                |               | 20 q   | (0.76)           | 2 4        | (c) (c)              |
| Sonie Gorp.                                       | 0.70 | 5.5                  | 3.585/      | 0.1000           | 4.00             | 7.07   | 7.5            |                     | 9 -           | 5. C   | 4 5              |            | (0.20)               |
| Openavey Motor sports                             | 0.00 | 8. C. C.             | 3 4403      | 0.0932           | 14.8<br>14.5     | 2.7  | * <del>-</del> | 13.5                | - 4           | 13.0   | (0.50)           | . 4<br>. 6 | (0.28)               |
| Stanley Works                                     | 56.0 | 0.86                 | 3.3819      | 0.1005           | 24.2             | 20.7   | 18.8           | 20.2                | 0.61          | 20.6   | 0.12             | 16.0       | (0.03)               |
| Stryter Com.                                      | 0.80 | 0.65                 | 3,1797      | 0.0942           | 25.7             | 23.8   | 21.0           | 21.3                | 22.1          | 22.8   | 0.30             | 25.0       | 1.49                 |
| Tennant Co.                                       | 0.95 | 0.87                 | 3.1645      | 0.0938           | 3.1              | 8.0  | 8.5            | 9.5                 | 11.9          | 8.0  | (0.91)           | 12.5       | (0.63)               |
| Thomburg Mtg.                                     | 0.75 | 0.62                 | 3.1900      | 0.0945           | 11.0             | 14.4   | 14.2           | 13.0                | 12.8          | 13.1   | (0.49)           | 12.0       | (0.71)               |
| Topps Co.   | 0.90 | 0.81                 | 3.6416      | 0.1079           | 14.7             | 9.6  | <b>9</b> .0    | 5.9                 | 5.6           | 7.6  | (0.94)           |            | (0.97)               |
| Toro Co.  | 0.95 | 0.88                 | 2.9780      | 0.0883           | 14.8             | 17.4   | 18.5           | 26.0                | 28.5          | 21.2   | 0.17             | 33.0       | 2.85                 |
| UnitedHealth Group                                | 0.65 | 0.41                 | 3.2053      | 0.0850           | 23.5             | 30.5   | 35.6           | 24.1                | 10 t          | 79.5<br>70.5   | 0.6              |            | 7.7                  |
| Wabtec Corp.                                      | e e  | 9.7                  | 3.5083      | 0.1040           | . i              | 10. d  | 9 4<br>9 4     | <br>                | 7.07          | . e  | (6.0)            | . e        | (6.03)               |
| Mark Connections                                  | 9 6  | 20.0                 | 3 3554      | 0.000            | 2 5              | 2.5  | - ;            | 9 0                 | 5.5           | 5 5  | 0.65             | 18.0       | (600)                |
| Waste Management                                  | 9.0  | 98.0                 | 2 8301      | 0.0868           |                  | 5 4  | 13.5           | 13.7                | 7 T           | 4.0  | (0.42)           | 21.5       | 0.90                 |
| Wendy's Int'l                                     | 0.75 | 0.55                 | 3.3108      | 0.0981           | 18.8             | 15.1   | 13.4           | 13.6                | 12.0          | 14.8   | (0.37)           | 11.5       | (0.90)               |
| Zimmer Holdings                                   | 0.75 | 0.61                 | 3.6316      | 0.1100           | 242.4            | 70.4   | 9.3            | 15.2                | 16.5          | 70.8 (4)   | 4.24             | 14.5       | (0.29)               |
| Average for the Non-Litting Group                 | 9.   | 0.72                 | 3.2324      | 0.0958           |                  |  |                |                     |               |  |                  |            |                      |
| Average for the Proxy Group of Four               | į    | ;                    |             |                  |                  |  |                |                     |               |  |                  |            |                      |
| Value Late (Standard Edition) Water Companies     |      | 3                    | 3.2403 (10) | 0.0802           |                  |  |                |                     |               |  |                  |            |                      |
| Mean  |      |                      |             |                  |                  |  |                |                     |               | 18.8%  |                  | 15.3%      |                      |
| Conclusion (8)                                    |      |                      |             |                  |                  |  |                |                     |               |  | 16.1% (6)        |            |                      |
|   |      |                      |             |                  |                  |  |                |                     |               |  |                  |            |                      |
| Conservative Mean (7)                             |      |                      |             |                  |                  |  |                |                     |               | 14.4%  |                  | 13.8%      |                      |
| Conservative Conclusion, (8)                      |      |                      |             |                  |                  |  |                |                     |               |  | 14.1% (8)        |            |                      |
| See pages 5 and 6 for notes.                      |      |                      |             |                  |                  |  |                |                     |               |  |                  |            |                      |
|   |      |                      |             |                  |                  |  |                |                     |               |  |                  |            |                      |

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## United Utility Companies, Inc. Comparable Earnings Analysis

### E = Estimated

- Notes: (1) The criteria for selection of the proxy group of ninety-nine non-utility companies was that the non-utility companies be domestic and have a meaningful rate of return on book common equity, net worth, or partners' capital for each of the five years ended 2005 or projected 2009 2011 as reported in Value Line Investment Survey (Standard Edition). The proxy group of ninety-nine non-utility companies was selected based upon the proxy group of seven AUS Utility Reports water companies' unadjusted beta range of 0.24 0.84 and standard error of the regression range of 2.8957 3.7753. These ranges are based upon plus or minus three standard deviations of the unadjusted beta and standard error of the regression as detailed in Ms. Ahern's direct testimony. Plus or minus three standard deviations captures 99.73% of the distribution of unadjusted betas and standard errors of the regression.
  - (2) Ending 2005.
  - (3) 2009 2011.
  - (4) The Student's T-statistic associated with these returns exceeds 1.96 at the 95% level of confidence. Therefore, they have been excluded, as outliers, to arrive at proper mean historical and projected returns as fully explained in Ms. Ahern's testimony.
  - (5) The standard deviation of group of seven AUS Utility Reports water companies' standard error of the regression is 0.1466. The standard deviation of the standard error of the regression is calculated as follows:

Standard Deviation of the Std. Err. of the Regr. = Standard Error of the Regression /2N

where: N = number of observations. Since Value Line betas are derived from weekly price change observations over a period of five years, N = 259

Thus, 
$$0.1466 = 3.3355 = 3.3355$$
  
/518 22.7596

- (6) Mid-point of the arithmetic mean of the historical five year average and five year projected rate of return on book common equity, net worth, or partners' capital.
- (7) Arithmetic mean of historical five year rates of return and five year projected rates of return on net worth, common equity or partners' capital excluding those 20% and greater as well as those 8.8% or less, i.e., 200 basis points above the prospective yield of 6.8% on A rated Moody's public utility bonds (from page 1 of Schedule PMA-10.)
- (8) Mid-point of the arithmetic mean of historical five year rates of return and five year projected rates of return on net worth, common equity or partners' capital excluding those 20% and greater as well as those 8.8% or less, i.e., 200 basis points above the prospective yield of 6.8% on A rated Moody's public utility bonds (from page 1 of Schedule PMA-10.)
- (9) The criteria for selection of the proxy group of one hundred non-utility companies was that the non-utility companies be domestic and have a meaningful rate of return on book common equity, net worth, or partners' capital for each of the five years ended 2005 or projected 2009 2011 as reported in Value Line Investment Survey (Standard Edition). The proxy group of one hundred non-utility companies was selected based upon the proxy group of four Value

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## <u>United Utility Companies, Inc.</u> Comparable Earnings Analysis

Line (Standard Edition) water companies' unadjusted beta range of 0.31 - 0.89 and standard error of the regression range of 2.8185–3.6741. These ranges are based upon plus or minus three standard deviations of the unadjusted beta and standard error of the regression as detailed in Ms. Ahern's direct testimony. Plus or minus three standard deviations captures 99.73% of the distribution of unadjusted betas and standard errors of the regression.

(10) The standard deviation of the proxy group of four Value Line (Standard Edition) water companies' standard error of the regression is 0.1426 (3.2463 / 22.7596).

Source of Information: Value Line, Inc., June 16, 2006

Value Line Investment Survey (Standard Edition)